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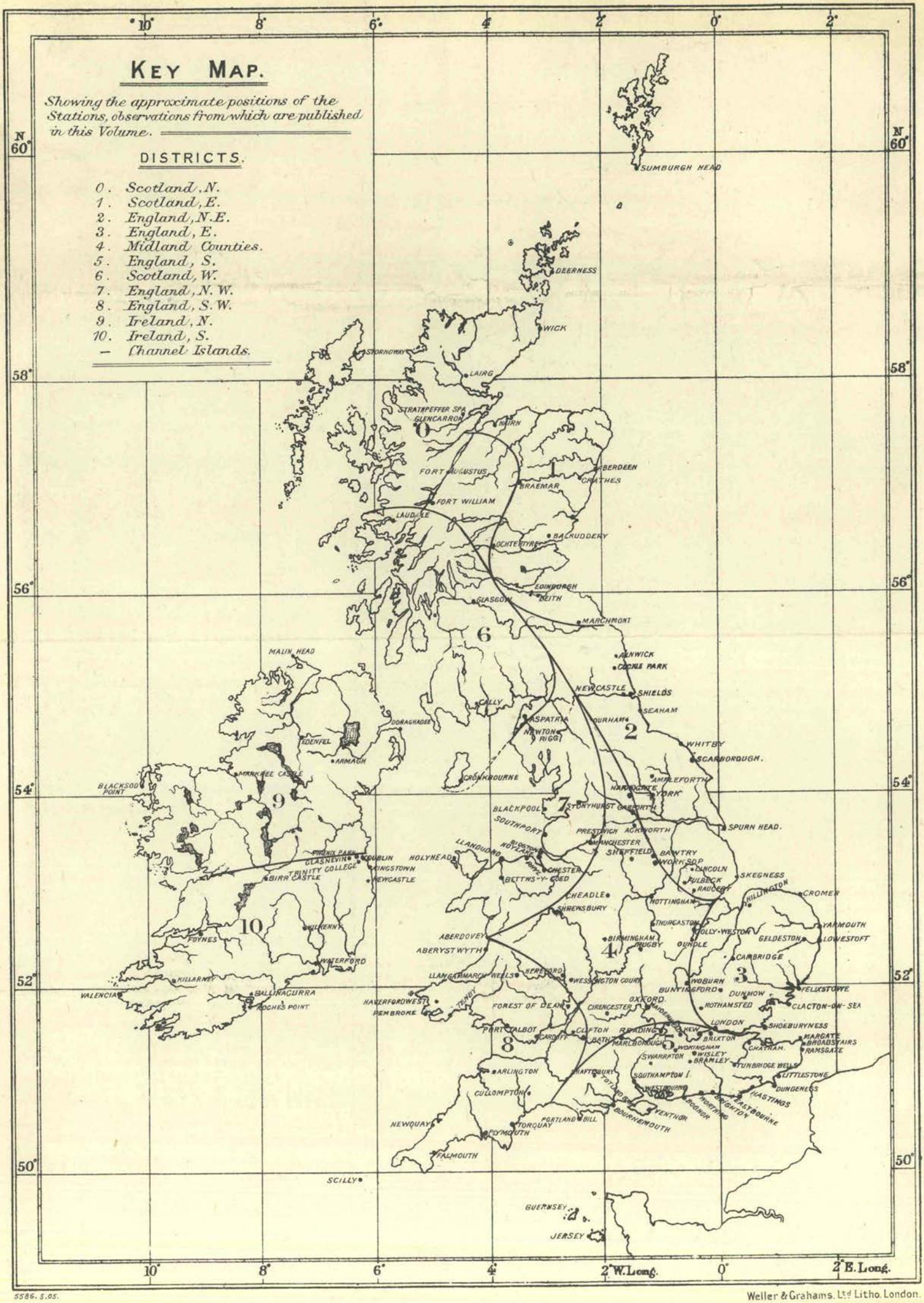

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THE

WEEKLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

FOR THE YEAR

1904

(VOL. XXI.—NEW SERIES)

CONTAINING

SYNOPTIC CHARTS,

AND

DESCRIPTIVE SUMMARIES OF THE WEATHER FOR EACH DAY;

ALSO

TABULAR SUMMARIES OF TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE, FOR EACH WEEK,

WITH MONTHLY AND ANNUAL SUPPLEMENTS, TWO APPENDICES AND FRONTISPIECE MAP.

Published by the Authority of the Meteorological Council.

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1905.

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I.—Summaries for each *District* for 1904, showing—

a. Rainfall, Rain-days and

Mean Temperature for each Quarter and for the Year, and—for the purposes of comparison—for corresponding periods from 1866 ;

b. Dates of the—

Driest and Wettest, and

Coldest and Warmest correspodning periods since 1866 ;

c. Rain Days,

Rainfall,

Accumulated Temperature above 42° F.,

Accumulated Temperature below 42° F.,

Bright Sunshine—Duration, and

Bright Sunshine—Percentages, for

periods of four weeks or five weeks with the progressive values from the beginning of the year - - - - - - - - - - - [1]

II.—Weekly and Progressive Values for each *District* for 1904 of the different elements, namely :—

Rain-Days,

Rainfall,

Accumulated Temperature above 42° F.,

Accumulated Temperature below 42° F.,

Bright Sunshine—Duration,

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QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1905.

Twenty-eighth Year. Vol. XXII. [*New Series.*] APPENDIX I. FIRST QUARTER—JANUARY TO MARCH. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE FIRST QUARTER OF THE FORTY YEARS, 1866 TO 1905.

YEARS.	Principal Wheat-producing Districts.												Principal Grazing Districts.										Channel Islands.		Means for Districts 1-10 combined.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing Districts.					
	RAINFALL.																									
	Days.	Ins.	Days	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.
Means for 5 years, 1866-1870.	—	12·6	—	9·6	—	5·4	—	5·7	—	6·9	—	8·5	—	7·2	—	12·6	—	11·8	—	13·7	—	11·8	—	11·0	—	12·2	—	—	—	9·7
1871-1875	—	9·1	—	7·8	—	4·9	—	4·4	—	6·6	—	7·1	—	6·2	—	11·1	—	10·4	—	13·7	—	9·5	—	10·5	—	11·0	—	—	—	8·6
1876-1880	—	9·5	—	7·2	—	5·3	—	5·7	—	6·2	—	7·2	—	6·3	—	11·2	—	9·5	—	9·9	—	9·2	—	10·0	—	10·0	—	—	—	8·2
1881-1885	65	9·9	49	6·2	45	5·2	44	5·1	45	6·4	43	6·4	45	5·9	58	12·5	50	8·8	53	9·7	61	9·4	58	11·9	56	10·5	57	8·2	51	8·2
1886-1890	66	12·2	52	6·2	47	5·2	47	4·7	43	5·2	44	5·4	47	5·3	53	10·7	50	6·9	49	8·3	56	8·4	50	9·5	52	8·8	57	7·1	50	7·1
1891	65	14·7	38	5·1	43	3·7	43	3·8	37	4·1	38	5·8	40	4·5	47	9·2	35	4·4	38	6·8	49	5·5	42	5·6	42	6·3	43	6·2	41	5·4
1892	63	11·2	46	5·5	47	4·4	49	4·0	44	4·0	38	3·7	45	4·3	47	8·0	46	6·3	47	6·4	49	5·9	45	7·6	47	6·8	52	6·9	47	5·6
1893	65	12·8	51	5·9	44	4·5	49	5·2	48	5·0	48	5·9	48	5·3	57	10·0	49	6·4	49	8·7	59	7·8	50	8·7	53	8·3	56	7·3	52	6·8
1894	68	21·1	56	11·0	51	5·4	47	4·2	54	5·8	49	6·3	51	6·5	64	18·6	56	9·9	56	10·5	64	12·3	61	10·9	60	12·4	56	7·7	56	9·5
1895	59	9·8	48	6·4	58	7·5	52	5·6	42	5·4	41	4·7	48	5·9	48	6·7	48	6·7	46	8·1	56	7·7	48	9·5	49	7·7	55	7·3	49	6·8
Means for 5 years, 1891-1895.	64	13·9	48	6·8	49	5·1	48	4·6	45	4·9	43	5·3	47	5·3	53	10·5	47	6·7	47	8·1	55	7·8	49	8·5	50	8·3	52	7·1	49	6·8
1896	68	17·8	50	4·8	39	4·1	47	4·9	45	4·3	42	4·4	45	4·5	61	12·1	53	8·3	50	6·9	56	9·2	51	8·8	54	9·1	53	4·9	50	6·8
1897	65	11·0	57	6·9	59	6·4	54	7·9	52	9·2	56	7·5	58	11·0	61	7·9	65	13·0	66	9·6	61	11·8	62	10·7	70	11·6	59	9·1
1898	77	18·7	52	4·8	44	3·4	41	3·5	39	2·9	37	3·5	43	3·6	62	10·5	50	7·3	48	6·0	61	7·8	44	6·6	53	7·6	56	4·4	48	5·6
1899	60	13·7	53	8·4	48	6·3	46	4·6	44	6·8	38	5·9	46	6·2	57	13·1	51	8·9	49	12·5	62	8·9	51	12·5	54	11·2	48	8·1	50	8·7
1900	66	11·7	54	8·8	54	7·8	55	7·3	50	8·6	50	9·3	53	8·4	54	12·2	52	9·2	56	13·5	60	8·2	56	9·9	55	10·6	65	12·4	54	9·5
Means for 5 years, 1896-1900.	67	14·6	53	6·7	49	5·4	49	5·5	46	6·1	44	6·5	48	6·0	58	11·8	53	8·3	54	10·4	61	8·7	53	9·9	56	9·8	58	8·3	52	7·9
1901	64	10·6	52	6·5	55	5·6	52	5·1	49	6·6	45	6·1	51	6·0	50	10·0	51	6·7	47	9·3	59	8·1	50	8·6	51	8·5	63	8·0	51	7·3
1902	68	14·6	50	4·7	41	3·7	42	3·2	38	4·6	35	4·9	41	4·2	60	13·3	53	6·5	47	7·6	63	8·7	49	9·1	54	9·0	51	6·0	48	6·6
1903	75	24·6	60	12·6	47	5·1	44	4·7	48	7·4	54	6·8	51	7·3	75	22·6	63	11·9	64	12·2	74	14·2	70	15·7	69	15·3	66	8·8	60	11·3
1904	62	13·0	56	7·5	54	5·4	54	5·9	61	7·7	60	9·0	57	7·1	57	14·1	56	9·6	62	12·3	67	10·6	67	13·1	62	11·9	67	12·8	60	9·5
1905	78	17·3	56	6·5	39	3·0	47	3·8	46	4·6	48	6·1	47	4·8	64	13·3	56	7·4	51	8·7	70	10·0	63	10·3	61	9·9	59	8·0	54	7·4
Means for 40 years, 1866-1905.	—	12·2	—	7·3	—	5·1	—	5·0	—	6·1	—	6·6	—	6·0	—	11·9	—	8·9	—	10·5	—	9·4	—	10·3	—	10·2	—	—	—	8·1
	MEAN TEMPERATURE.																									
Means for 5 years, 1866-1870.	35°8		39°1		38°9		39°9		39°9		40°7		39°7		40°1		40°5		43°1		40°6		42°1		41°3		°		40°5	
1871-1875	40°2		40°0		39°7		39°9		40°5		41°2		40°3		40°8		41°6		44°0		41°6		43°7		42°3		—		41°3	
1876-1880	38°6		38°2		39°2		39°4		39°8		40°6		39°4		39°9		40°2		43°2		40°8		43°6		41°5		—		40°5	
1881-1885	38°8		38°9		39°4		39°8		39°9		41°4		39°9		40°2		40°5		42°7		41°3		43°1		41°6		44°9		44°8	
1886-1890	38°1		38°0		38°3		37°4		37°8		38°8		38°1		39°3		38°9		40°2		40°5		41°8		40°1		43°2		39°1	
1891	38°4		38°0		37°9		37°4		38°0		38°4		37°9		39°6		39°5		40°2		40°8		42°3		40°5		43°1		39°2	
1892	36°3		36°1		36°9		36°3		36°6		38°3		36°8		37°9		37°9		39°7		39°2		40°3		39°0		43°0		37°9	
1893	38°8		38°8		40°2		39°8		40°3		41°3		40°1		40°7		41°2		42°8		42°2		43°8		42°1		46°0		41°1	
1894	39°2		38°8		39°8		40°0		40°4		41°8		40°2		41°0		42°0		42°7		41°8		43°6		42°2		45°5		41°2	
1895	34°3		32°5		34°9		34°4		33°6		35°3		34°1		34°8		35°0		36°4		36°5		38°4		36°2		39°9		35°2	
Means for 5 years, 1891-1895.	37°4		36°8		37°9		37°6		37°8		39°0		37°8		38°8		39°1		40°4		40°1		41°7		40°0		43°5		38°9	
1896	40°9		40°4		41°2		40°9		41°4		42°7		41°3		42°3		42°5		43°9		43°4		45°5		43°5		46°7		42°4	
1897	37°5		37°4		39°4		39°8		39°8		41°7		39°6		39°5		40°4		42°5		40°6		42°8		41°2		45°7		40°4	
1898	40°1		40°3		41°1		40°5		40°7		42°2		41°0		42°0		42°1		43°0		42°7		44°3		42°8		45°8		41°9	
1899	38°4		38°0		40°3		41°1		40°7		42°7		40°6		40°6		41°8		43°4		41°7		43°8		42°3		46°8		41°5	
1900	36°6		35°9		37°6		38°1		37°8		39°9		37°9		38°2		38°6		40°7		39°0		40°1		39°3		44°6		38°6	
Means for 5 years, 1896-1900.	38°7		38°4		39°9		40°1		40°1		41°8		40°1		40°5		41°1		42°7		41°5		43°3		41°8		45°9		41°0	
1901	38°0		37°0		38°0		37°2		37°3		38°5		37°6		39°0		38°5		39°7		40°0		40°8		39°6		43°2		38°6	
1902	37°8		37°4		39°5		39°7		39°8		41°2		39°5		39°7		40°2		42°1		41°2		43°2		41°3		45°3		40°4	
1903	39°7		39°7		42°2		43°3		42°4		44°1		42°3		42°0		42°9		44°6		42°4		44°3		43°2		47°0		42°8	
1904	38°4		37°4		38°9		39°2		38°9		40°2		38°9		39°5		39°4		41°6		40°2		42°0		40°5		44°2		39°7	
1905	39°6		39°9		41°0		41°1		40°9		42°0		41°0		41°6		41°8		42°8		42°3		44°1		42°5		45 8		41°8	
Means for 40 years, 1866-1905.	38°7		38°5		39°2		39°3		39°5		40°6		39°4		40°0		40°2		42°3		41°0		42°8		41°3		—		40°4	

TABLE IA.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE FORTY YEARS, 1866 TO 1905.

		Wheat Districts.	Grazing Districts.	Wheat and Grazing Districts combined.
Rainfall	Driest	Ins. 3·6 in 1898	Ins. 6·3 in 1891	Ins. 5·4 in 1891
	Wettest	9·0 in 1872	15·3 in 1903	12·0 in 1872
Temperature	Coldest	34°1 in 1895	36°2 in 1895	35°2 in 1895
	Warmest	42·8 in 1882	44·6 in 1882	43·7 in 1882

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR PERIODS OF FOUR WEEKS OR FIVE WEEKS, AND THE PROGRESSIVE VALUES FROM JANUARY 1ST, 1905, FOR THE FIRST QUARTER, 1905.

1905. — FOUR WEEKS OR FIVE WEEKS ENDING.	0. SCOTLAND, N.		Principal Wheat-producing Districts. 1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		Principal Grazing Districts. 6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR GRAZING DISTRICTS.		CHANNEL ISLANDS.		MEANS FOR DISTRICTS 1-10 COMBINED.	
	For the Period.	From Jan. 1, 1905.	For the Period.	From Jan. 1, 1905.	For the Period.	From Jan. 1, 1905.	For the Period.	From Jan. 1, 1905.	For the Period.	From Jan. 1, 1905.	For the Period.	From Jan. 1, 1905.	For the Period.	From Jan. 1, 1905.	For the Period.	From Jan. 1, 1905.	For the Period.	From Jan. 1, 1905.	For the Period.	From Jan. 1, 1905.	For the Period.	From Jan. 1, 1905.	For the Period.	From Jan. 1, 1905.	For the Period.	From Jan. 1, 1905.	For the Period.	From Jan. 1, 1905.	For the Period.	From Jan. 1, 1905.
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
Jan. 28 -	21	21	12	12	9	9	10	10	11	11	9	9	10	10	17	17	14	14	11	11	18	18	16	16	15	15	11	14	13	13
Feb. 25 -	25	46	16	28	9	18	13	23	12	23	13	22	12	22	19	36	17	31	15	26	22	40	17	33	18	33	18	32	15	28
Apr. 1 -	32	78	28	56	21	39	24	47	23	46	26	48	24	46	28	64	25	56	25	51	30	70	30	63	28	61	27	59	26	54
RAINFALL.—AMOUNTS IN INCHES.																														
Jan. 28 -	5·14	5·14	0·91	0·91	0·48	0·48	0·90	0·90	0·85	0 85	1·13	1·13	0·85	0·85	3·32	3·32	1·77	1·77	1·59	1·59	2·68	2·68	2·95	2·95	2·46	2·46	1·52	1·52	1·66	1·66
Feb. 25 -	6·40	11·54	1·41	2·32	0·65	1·13	0·71	1·61	0·54	1·39	0·44	1·57	0·75	1·60	3·40	6·72	1·32	3·09	1·03	2·62	2·11	4·79	1·47	4·42	1·87	4·33	1·24	2·76	1·31	2·97
Apr. 1 -	5·74	17·28	4·20	6·52	1·84	2·97	2·19	3·80	3·25	4·64	4·57	6·14	3·21	4·81	6·57	13·29	4·32	7·41	6·08	8·70	5·17	9·96	5·84	10·26	5·60	9·93	5·20	7·96	4·41	7·38
ACCUMULATED TEMPERATURE.—DAY-DEGREES ABOVE 42° F.																														
Jan. 28 -	30	30	36	36	24	24	18	18	23	23	25	25	25	25	37	37	41	41	42	42	58	58	99	99	55	55	102	102	40	40
Feb. 25 -	23	53	43	79	61	85	61	79	77	100	75	100	63	88	64	101	64	105	80	122	78	136	101	200	77	132	116	218	70	110
Apr. 1 -	67	120	91	170	132	217	149	228	161	261	146	246	136	224	103	204	135	240	149	271	109	245	151	351	129	261	193	411	133	243
ACCUMULATED TEMPERATURE.—DAY-DEGREES BELOW 42° F.																														
Jan. 28 -	107	107	131	131	134	134	155	155	165	165	136	136	144	144	87	87	104	104	99	99	66	66	47	47	81	81	25	25	113	113
Feb. 25 -	136	243	132	263	89	223	79	234	79	244	54	190	86	230	70	157	58	162	43	142	63	129	45	92	56	137	18	43	71	184
Apr. 1 -	100	343	122	385	80	303	68	302	86	330	55	245	82	312	77	234	67	229	56	198	101	230	66	158	73	210	12	55	78	262
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
Jan. 28 -	23	23	42	42	49	49	66	66	51	51	65	65	55	55	36	36	36	36	58	58	25	25	36	36	38	38	76	76	47	47
Feb. 25 -	52	75	78	120	77	126	90	156	65	116	79	144	78	133	70	106	68	104	72	130	70	95	76	112	71	109	68	144	74	121
Apr. 1 -	48	153	103	223	146	272	156	312	130	246	144	288	136	269	139	245	148	252	142	272	161	256	156	268	149	258	151	295	143	264
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
Jan. 28 -	12	12	20	20	23	23	29	29	23	23	28	28	25	25	17	17	16	16	25	25	12	12	16	16	17	17	32	32	21	21
Feb. 25 -	21	17	31	26	29	26	34	32	24	24	29	29	30	28	27	22	26	22	27	26	27	20	29	23	27	23	25	28	28	25
Apr. 1 -	12	18	25	26	36	31	38	35	32	27	35	32	33	30	34	28	36	28	35	30	39	29	38	30	37	29	37	32	35	30

EXPLANATION OF TABLES.

TABLES I. and IA. are in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884-1904. The whole of the values for 1878-1905, however, have been corrected by information which may have been received since they were first published.

TABLE II. In this Table the values given do not apply to calendar months but to periods of four weeks or five weeks ending at the dates shown.

The figures given in the columns headed "From Jan. 1, 1905" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for "the Grazing Districts" the values for the "Channel Islands" are not included.

PREFACE.

In the Weekly Weather Report for 1904 the general arrangement of the weekly Remarks and Tabular matter is unaltered. These will be found on the first, second, and sixth pages of each Report. The Daily Charts cover the same area as those for last year, viz.: nearly the whole of Europe and the greater part of the Mediterranean.

The Monthly and Annual Summaries have been further enlarged, and now contain results of the observations made at 147 to 150 stations in the British Islands, the Annual Summary being again included.

Appendices I. and II. are published, as hitherto—the former with some slight modification since 1891.

DISTRICTS AND STATIONS.

For the purposes of this Report the United Kingdom is divided into eleven Districts, which are shown on the frontispiece map, distinguished by the numbers 0 to 10. There are in addition five stations in the Channel Islands, viz., Scilly (St. Mary's), Jersey (St. Aubin's and St. Heliers), and Guernsey (St. Peter Port, Villa Carey, and Fort Road), which cannot be conveniently placed in any of the Districts. The positions of the stations supplying information are marked on the map by black dots, and their names are given in the following list, arranged under the districts to which they belong :—

District.	County.	Station.
0. SCOTLAND, N.	Caithness	Wick.
	Cromarty	Strathpeffer Spa.
	Inverness	Fort Augustus.
	"	Fort William.
	Orkney	Deerness.
	Ross	Glencarron.
	"	Stornoway.
	Shetlands	Sumburgh Head.
	Sutherland	Lairg.
1. SCOTLAND, E.	Aberdeen	Aberdeen.
	"	Braemar.
	"	Crathes.
	Berwick	Marchmont.
	Edinburgh	Edinburgh.
	"	Leith.
	Forfar	Balruddery.
	Nairn	Nairn.
	Perth	Ochtertyre.
2. ENGLAND, N.E.	Durham	Durham.
	"	Seaham.
	Lincoln	Lincoln.
	"	Fulbeck.
	"	Rauceby.
	"	Skegness.
	Northumberland	Alnwick Castle.
	"	Cockle Park.
	"	Shields.
	"	Newcastle-on-Tyne.
	York	Ampleforth.
	"	Scarborough.
	"	Spurn Head.
	"	Whitby.
	"	York.
3. ENGLAND, E.	Cambridge	Cambridge.
	Essex	Clacton-on-Sea.
	"	Dunmow.
	"	Shoeburyness.
	Hertford	Buntingford.
	"	Rothamsted.
	Norfolk	Cromer.
	"	Geldeston.
	"	Hillington.
	"	Yarmouth.
	Suffolk	Felixstowe.
	"	Lowestoft.
4. MIDLAND COUNTIES.	Bedford	Woburn.
	Gloucester	Cirencester.
	Hereford	Hereford.
	"	Wessington Court.
	Leicester	Thurcaston.
	Shropshire	Shrewsbury.
4. MIDLAND COUNTIES—*cont.*	Northampton	Colly Weston.
	"	Oundle.
	Nottingham	Bawtry.
	"	Nottingham.
	"	Worksop.
	Oxford	Oxford.
	Stafford	Cheadle.
	Warwick	Birmingham.
	"	Rugby.
	York	Ackworth.
	"	Garforth.
	"	Harrogate.
	"	Sheffield.
5. ENGLAND, S.	Berkshire	Maidenhead.
	"	Reading.
	"	Wokingham.
	Dorset	Portland Bill.
	"	Shaftesbury.
	Hampshire	Bournemouth.
	"	Southampton.
	"	Swarraton.
	"	Totland Bay.
	"	Ventnor Hospital.
	Kent	Broadstairs.
	"	Chatham.
	"	Dungeness.
	"	Littlestone-on-Sea.
	"	Margate.
	"	Tunbridge Wells.
	"	Ramsgate.
	Middlesex	London (City).
	"	" (Westminster).
	Surrey	Bramley.
	"	Kew.
	"	London (Brixton).
	"	Wisley.
	Sussex	Bognor.
	"	Brighton.
	"	Eastbourne.
	"	St. Leonards.
	"	Westbourne.
	"	Worthing.
	Wiltshire	Marlborough.
6. SCOTLAND, W.	Argyll	Laudale.
	Cumberland	Aspatria.
	Isle of Man	Cronkbourne.
	Kirkcudbright	Cally.
	Lanark	Glasgow.
7. ENGLAND, N.W., AND N. WALES.	Cheshire	Chester (Hawarden Bridge).
	"	Hoylake.
	"	Liverpool (Bidston).
	Cumberland	Newton Rigg.

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District.	County.	Station.
7. ENGLAND, N.W., AND N. WALES —*cont.*	Lancashire	Blackpool.
	"	Manchester (Whitworth Park).
	"	" (Prestwich).
	"	Southport.
	"	Stonyhurst.
	Anglesey	Holyhead.
	Carnarvon	Bettws-y-Coed.
	"	Llandudno.
	Flint	Rhyl.
	Merioneth	Aberdovey.
8. ENGLAND, S.W., AND S. WALES.	Brecknock	Llangammarch Wells.
	Cardigan	Aberystwyth.
	Glamorgan	Cardiff.
	"	Port Talbot.
	Pembroke	Haverfordwest.
	"	Pembroke.
	"	Tenby.
	Cornwall	Falmouth.
	"	Newquay.
	Devon	Arlington.
	"	Cullompton.
	"	Plymouth.
	"	Torquay.
	Gloucester	Clifton.
	"	Forest of Dean :— Ruardean, 900 ft. Whitemead, 200 ft.
	Somerset	Bath.

District.	County.	Station.
9. IRELAND, N.	Armagh	Armagh.
	Donegal	Malin Head.
	Down	Donaghadee.
	Mayo	Blacksod Point.
	Sligo	Markree Castle.
	Tyrone	Edenfel.
10. IRELAND, S.	Cork	Ballinacurra.
	"	Roche's Point.
	Dublin	Dublin (City).
	"	" (Phœnix Pk.).
	"	" (Glasnevin).
	"	" (Trin. Coll.).
	"	Kingstown.
	Kerry	Killarney.
	"	Valencia.
	Kilkenny	Kilkenny Castle.
	Kings County	Birr Castle.
	Limerick	Foynes.
	Waterford	Waterford.
	Wicklow	Newcastle.
CHANNEL ISLANDS.	Channel Islands	Guernsey (Villa Carey).
	"	" (Fort Road).
	"	Jersey (St. Aubin's).
	"	" (St. Heliers).
	Scilly Islands	Scilly (St. Mary's).

The list for 1904 differs from that for 1903 by the omission of :—

Hollesley Bay	Suffolk
Loughborough	Leicestershire
Churchstoke	Montgomery
Watergate	Sussex
Newton Reigny	Cumberland
Llandovery	Carmarthenshire

where the observations have been discontinued—and by the addition of the following stations :—

District.	County.	Station.	——
1. SCOTLAND, E.	Aberdeen	Crathes	Sunshine values only included in the Weekly Reports.
	Forfar	Balruddery	" "
2. ENGLAND, N.E.	Durham	Seaham	Monthly results only.
	Lincoln	Lincoln	Additional station for District 2.
	"	Skegness	Sunshine values only included in the Weekly Reports.
	York	Ampleforth	Monthly results only.
	"	Whitby	" "
3. ENGLAND, E.	Hertford	Buntingford	" "
4. MIDLAND COUNTIES	Bedford	Woburn	" "
	Hereford	Wessington Court	" "
	Northampton	Oundle	" "
	Warwick	Rugby	" "
	York	Ackworth	" "
	"	Garforth	" "
5. ENGLAND, S.	Berkshire	Maidenhead	" "
	"	Reading	" "
	"	Wokingham	" "
	Hampshire	Totland Bay	" "
	Kent	Chatham	" "
	Surrey	Wisley	Additional Station for District 6.
7. ENGLAND, N.W.	Lancashire	Manchester (Whitworth Park)	Monthly results only.
8. ENGLAND, S.W.	Brecknock	Llangammarch Wells	In place of Llandovery.
	Cardigan	Aberystwyth	Monthly results only.
	Glamorgan	Cardiff	Additional Station for District 8
	Gloucester	Forest of Dean :— Whitemead Park, 200 feet	Monthly results only.
		Ruardean Lodge, 900 feet	" "
10. IRELAND, S.	Cork	Ballinacurra	" "
	Dublin	Glasnevin	" "
	"	Trinity College	" "
	"	Kingstown	" "
	Wicklow	Newcastle	" "

WEEKLY REPORT.

The general arrangement of the weekly issues of the Report is as follows :—

I. Weekly Summary, arranged under *Districts*.
II. Weekly Summary arranged under *Stations*.
III. Daily Charts.
IV. General Notes, &c.

The information given under each of these heads may be summarised as follows :—

I. *Weekly Summary.*—The Tabular Summary on the first page of each Report gives for the week and for each *District* :—

Temperature.—The absolute highest and lowest observed, the average maximum, the average minimum, the average *daily temperature*, and its difference from the mean for the corresponding period as derived from observations extending over the 30 years 1871–1900. The values for "accumulated temperature" above 42° F. and below 42° F. for the week and for the period from the beginning of the year, and the differences from the mean values for the corresponding periods as derived from observations extending over the 20 years 1881–1900.

Rainfall.—The total fall and the number of rain-days for the week, and for the part of the year to date, together with the differences from average for the corresponding periods based on observations from 1866–1900.

Bright Sunshine.—The number of hours of sunshine recorded, and the percentage ratio of that time to the whole time during which the sun was above the horizon : also the progressive values reckoned from the commencement of the year, together with the differences between these values and the means for the corresponding periods in the 20 years 1881 to 1900.

General Remarks on the weather for the week.

II. *Weekly Summary.*—This appears on the second page in each weekly issue and contains the data used in the preparation of the Summaries on the first page, the values being set out for each *Station*. The information given for each station is in nearly the same form as that presented for each District in I.

III. *Daily Charts.*—These are three in number for each day, and they show the distribution of pressure and wind over the whole of Europe at 8 a.m. and 6 p.m., and the temperature, weather, and sea disturbance at 8 a.m. each day. The maps are accompanied by a brief account of the weather conditions for the day, and the changes that had taken place since the previous day.

IV. *General Notes, &c.*—The General Notes give a brief but comprehensive account of the weather changes over Europe for the period under review. Under this heading also are printed the results, as far as regards Bright Sunshine, from a number of additional stations.

The following Rules are observed in compiling the Tables and preparing the Daily Charts :—

(1.) Daily Mean Temperature.

The daily Mean Temperature shown in the Tables in the *Weekly* Reports is calculated from the mean between the daily maxima and minima, due regard being had for the varying relation found to subsist, from month to month, between the true mean temperature of the day derived from 24 hourly observations, and the means of the daily maxima and minima for a series of years, as recorded at Greenwich and at the self-registering Observatories of the Meteorological Council.

The approximate Mean Daily Temperature for any week is found by multiplying the *difference* between the means of the seven observed maxima and minima by the proper coefficient for the month (shown in the following Table), and adding the product to the mean of the minima :—

Months.	Coefficient.
January. December.	0·520
February. November.	0·500
March. October.	0·485
April. September.	0·476
May. August.	0·470
June. July.	0·465

Example :

The mean maximum temperature for a week in December being - - 48°·1
The mean minimum - - - - - - - - - - - - - - 39°·3
The difference is- - - - - - - - - - - - - - 8°·8

This difference 8·8 × ·520 (the coefficient for December) = 4·6.

This value when added to the mean minimum (39·3) gives 43°·9, the required mean daily temperature of the week.

(2.) Accumulated Temperature.

The Tables of Accumulated Temperature are designed to give persons engaged in agriculture better means of estimating the manner in which vegetation is affected by temperature than that afforded by the more usual methods of treating the readings of the thermometer. They show for each *Station* and for each *District* for each week, and for the *Districts*, for the whole period from the commencement of the year, the weekly and progressive values, respectively, of the combined amount and duration of the excess or defect of the air temperature, above or below a suitably fixed standard, or *base temperature*. The base adopted is 42° F., as being nearly equivalent to 6° C. This has been considered by Continental writers on these subjects to be the critical value, the temperature above which is mainly effectual in starting and maintaining the growth, and in completing the ripening, of agricultural crops in a European climate. This base is also convenient as being 10° F. above the freezing point on the Fahrenheit scale.

The Accumulated Temperature is expressed in "Day-degrees,"—a Day-degree signifying 1° F. of excess or defect of temperature above or below 42° F. continued for 24 hours, or any other number of degrees for an inversely proportional number of hours.

When the temperature during any period remains either wholly above or below the base temperature, the difference between the base and the mean temperature of the day gives the correct accumulated temperature. In other cases this difference gives only an approximate value for the accumulated temperature, not departing greatly from the truth—the deviation depending on the greater or less extent of the variations of the temperature above or below the base. Further, since the mean between the maximum and minimum of any day is nearly equal to the mean temperature of the day, the difference of the mean of the maximum and minimum from the base will also give, directly, an approximation to the accumulated temperature for the day.

The following rules, however, supply a still closer approximation to the true values sought, and they have been adopted for the preparation of the Tables in this Report. They may be applied to any other base temperature as well as to 42° F., with the slight modification of the numerical coefficients mentioned below.

RULES for computing, for a WEEKLY PERIOD, from the observed MAXIMA and MINIMA, the ACCUMULATED TEMPERATURE above or below 42° F.

1. Obtain the mean temperature, from the means of the seven observed maxima and minima, in the manner already described for daily values.

2. In obtaining the accumulated temperature four cases may occur, to which the following rules will apply :—

Conditions of Temperature.	To obtain the daily Accumulated Temperature.	
	Above 42° F.	Below 42° F.
If the minimum is *above* 42° F. or *equal* to 42° F. -	Subtract 42° F. from the mean.	There is none.
If the minimum is *below* 42° F., but the mean for the day is *above* 42° F.	From the difference between the mean for the day and the minimum deduct the accumulated temperature below 42° F., calculated as stated in the next column.	The required quantity is the excess of 42° F. over the minimum, multiplied by the co-efficient 0·4.
If the mean for the day is *below* 42° F., but the maximum is *above* 42° F	The required quantity is the excess of the maximum over 42° F., multiplied by the co-efficient 0·4.	From the difference between the mean for the day and the minimum deduct the accumulated temperature above 42° F., calculated as stated in the preceding column.
If the maximum is *below* 42° F. or *equal* to 42° F. -	There is none.	Subtract the mean from 42° F.

In each of the above cases the result will be the *average daily* value, and must be multiplied by 7 in order to obtain the value for the whole week.

The coefficient varies with the duration of the period, and also with the base temperature.

The coefficient given above, in cases 2 and 3, is for a weekly period, and for the base temperature 42° F. The following are its values for other base temperatures,—for 32° F., 0·4 ; for 52° F., 0·33 ; for 62° F., 0·25.

A full explanation of the principles on which these rules are based will be found in Appendix II. to the Quarterly Weather Report for 1878.

(3.) DAILY CHARTS.

In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus : ➽ = a heavy gale ; ⟶ = a gale ; ⟶ = a fresh to strong breeze ; ⟶ = a light to moderate breeze ; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows :—b = blue sky ; c = detached clouds ; o = overcast ; m = misty (hazy) ; f = foggy ; q = squally ; r = rain ; h = hail ; s = snow ; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands and Spain ; at 7 a.m. in Belgium, Holland, Germany, Denmark, Norway, and Sweden ; at 6.51 a.m. in France and Algeria ; at 6 a.m. in Italy and Austria ; at 5.25 a.m. in Greece ; at 4.59 a.m. in Russia ; and at 8.36 a.m. in Portugal.

The Chart for 6 p.m. is prepared from observations taken at 6 p.m. in the British Islands and Spain ; 4 p.m. in Portugal ; 5.25 p.m. in Greece ; 5.51 p.m. in France ; 6.51 p.m. in Algeria ; 6.59 p.m. in Russia ; 7 p.m. in Germany, Holland, Denmark, Norway, and Sweden ; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich time.

MONTHLY AND ANNUAL SUMMARIES.

The Monthly Summaries have again been considerably enlarged, and for 1904 they comprise results from 150 stations in the British Islands.

Of the additional stations included for the first time some rank as Normal Climatological Stations, and give full returns of pressure, temperature, humidity, cloud, rainfall, wind, and weather. Others are Climatological, and yield information as to temperature, rainfall, and in some cases sunshine, while others supply only the sunshine record.

The Summary for January, 1904, contained results for 147 stations, whilst that for December comprised returns from 150 stations. The 150 stations in December may be classified thus :—Yielding full returns 56 stations ; results for temperature, rainfall, and in some cases sunshine, 82 stations ; results for sunshine only 12 stations.

Each Monthly Summary includes :—

1. A Plate containing 4 charts, showing—
   (1.) The Monthly Barometric pressure and Winds based on the 8 a.m. readings.
   (2.) The Movements of Depressions.
   (3.) The Distribution of Mean Temperature, and
   (4.) The Monthly Rainfall.
2. Remarks on the Weather over the British Islands.
3. Table of results for the month from 56 stations giving full returns.
4. Table of results for the month, as far as available, of the observations of Temperature Rainfall, and Sunshine, at the remainder of the stations (94 in number in December).

The Annual Summary gives corresponding data for the whole year.

APPENDICES.

Appendix I.—This contains for each of the eleven *Districts* and for the Channel Islands :—

1. Summaries for each Quarter and for the Year, of the Temperature and Rainfall records, with similar information for the past years of the period of 39 years, 1866–1904.

2. Tables giving for 1904, *for periods of* 4 *weeks and* 5 *weeks*, the progressive numbers of—

   Rain-Days.
   Rainfall.
   Accumulated Temperature above 42° F.
   Accumulated Temperature below 42° F.
   Bright Sunshine,—Duration, and
   Bright Sunshine,—Percentage.

Appendix II.—This contains for each of the eleven *Districts* and for the Channel Islands :—

Tables giving for 1904 the *weekly* and *progressive* values of—

   Rain-Days.
   Rainfall.
   Accumulated Temperature above 42° F.
   Accumulated Temperature below 42° F.
   Bright Sunshine,—Duration, and
   Bright Sunshine,—Percentage.

Tables showing for each degree of Latitude from 49° *N. to* 58° *N., and for each Weekly and Four-Weekly or Five-Weekly period, the total numbers of hours during which the Sun is above the Horizon, together with their Reciprocals, are given in the Preface to The Weekly Weather Report for* 1884, *while similar information for the Calendar Months is given in the Preface to The Monthly Weather Report for* 1884.

THE following is a LIST of the VOLUNTEER OBSERVERS to whom the Council are indebted for observations contributed to the WEEKLY WEATHER REPORT and published either in the Weekly Issues or in the Monthly Summaries during 1904, together with the NAMES and ALTITUDES of their STATIONS :—

Names of Stations.	Altitude above Mean Sea Level.	Names of Observers.
	Feet.	
* Aberdovey	—	John Edwards.
Aberystwyth	—	R. Kenrick.
Ackworth	123	E. B. Ludlam, M.Sc.
Alnwick Castle	210	Robert Kyle, for the Duke of Northumberland, K.G.
Ampleforth	346	Rev. J. B. MacLaughlin, B.A., O.S.B.
Arlington (N. Devon)	613	Lady Chichester.
Armagh	196	J. L. E. Dreyer, Ph.D., and Staff of Observatory.
Aspatria	250	J. Smith Hill, B.Sc.
Ballinacurra	28	John H. Bennett.
Balruddery	280	R. Cairns, for J. White.
Bawtry (Hesley Hall).	65	B. I. Whitaker, J.P., F. R. Met. Soc.
Bath	66	W. H. Symons, M.D., for the Corporation.
Bettws-y-Coed	101	Douglas Macdonogh, M.D.
Birmingham (Edgbaston).	534	Alfred Cresswell, for the Midland Institute.
ℳ Blackpool	62	F. J. H. Coutts, M.D., for the Corporation.
Bognor	14	H. C. L. Morris, M.D., and A. G. Thompson.
Bournemouth	—	C. Dales, for the Corporation.
$ Braemar	1,111	J. Aitken, J.P.
Bramley (Surrey)	148	J. Bartlett, M.A.
Brighton	65	A. Newsholme, M.D., for the Corporation.
Broadstairs	—	W. H. White, for the District Council.
Buntingford	333	Dr. G. M. Smith.
$ Cally	46	W. Thomson, for H. G. Murray Stewart.
Cambridge	83	R. Irwin Lynch, for the Botanic Garden Syndicate.
Cardiff	—	E. Walford M.D., for the Corporation.
ℳ Cheadle	646	J. C. Philips, J.P.
Chester (Hawarden Bridge).	22	F. B. Summers.
Cirencester	446	Prof. G. T. Locke, M.A., for the R. A. College.
Clacton-on-Sea	54	A. W. Shadick, for the Town Council.
Clifton	230	D. Rintoul, M.A.
Cockle Park, near Morpeth.	324	J. H. J. Farquhar, B.Sc., and A. G. Birt, for County Council.
Colly Weston	280	Miss Amy Tasker.
Crathes	145	J. Smith.
Cromer	196	W. H. Archer, for the District Council.
Cronkbourne, Douglas.	137	A. W. Moore, M.A., C.V.O., J.P.
ℳ Cullompton	202	T. Turner, J.P., F. R. Met. Soc.
Deerness	160	M. Spence.
Douglas, Isle of Man	137	*See* Cronkbourne.
Dublin (City)	47	Sir John W. Moore, M.D., F. R. Met. Soc.
„ (Glasnevin)	67	F. W. Moore, M.R.I.A.
„ (Phœnix Park)	155	Col. Sim, R.E., C.B., and Col. Meeres, R.E.
„ (Trinity College).	—	Arthur R. Moore.
Dunmow	297	Thomas Hacking, for the Countess of Warwick's Agricultural School.
Durham	336	Prof. R. A. Sampson, M.A., F.R.S.
Eastbourne	39	R. Sheward, F. R. Met. Soc., for the Corporation.
Edenfel (Omagh)	300	Col. Buchanan, C.B., F. R. Met. Soc.
* Edinburgh	253	Regius Keeper, Botanic Gardens.
Felixstowe	76	F. Mills, for the Urban District Council.
Forest of Dean	200	Phillip Bayliss.
Forest of Dean	900	„ „
$ Fort Augustus	68	Rev. C. von Dieckhoff.
Foynes	108	W. H. Ward, for Lord Monteagle, K.P.
Fulbeck	185	Rev. Vere F. Willson, M.A.
Garforth	195	Prof. Seton, for the Yorkshire College, Leeds.
Geldeston	37	E. T. Dowson, F. R. Met. Soc.
Glasgow	180	Staff of Observatory.
$ Glencarron	489	D. D. Munro, for Lord Maclaren.
* Guernsey (Villa Carey).	180	F. E. Carey, M.D., F. R. Met. Soc.
Guernsey (Fort Road)	295	A. Collenette, F. R. Met. Soc.
Harrogate	476	G. Paul, for the Corporation.
Hastings (St. Leonards).	178	H. Colborne, M.R.C.S., for the Corporation.
* Haverfordwest	—	J. W. Phillips.
ℳ Hereford (Belmont).	291	Canon T. B. Harrington, O.S.B.
ℳ Hillington	88	Rev. H. E. B. Ffolkes, M.A., F. R. Met. Soc.
* Hoylake	30?	Tom Robinson, for Urban District Council.
* Jersey (St Heliers)	—	Commanding Officer, Fort Regent.
Kilkenny Castle	212	H. Carlton, for the Marquis of Ormonde, K.P.
Killarney	174	E. W. Griffin, M.D.
Kingstown	—	Dr. J. B. Power, for the Corporation.
$ Lairg	335	Rev. J. K. Maclean.
Laudale	14	J. A. Fletcher, for T. H. G. Newton, M.A.
Lincoln	65	*The late* W. H. Curtin, for the Corporation.
Littlestone-on-Sea	—	H. T. Tubbs.
ℳ Llandudno	72	W. Little, for Town Council.
Llangammarch Wells.	550	W. Black Jones, M.D.
* London (Bunhill Row).	80	Messrs. De la Rue.
* London (Westminster).	—	H. A. Reatchlous, M.A., and J. H. Cowham.
Lowestoft	84	C. W. Edwards, F. R. Met. Soc., for the Corporation.
Maidenhead	99	G. H. Palmer.
Manchester (Whitworth Pk.).	—	Prof. Schuster, Ph.D., F.R.S.
$ Marchmont	498	J. A. Wood, for Sir H. P. Campbell, Bt.
Margate	83	J. Stokes, J.P., F. R. Met. Soc.
Markree Castle	122	J. R. Armstrong, for the trustees of *the late* Col. Cooper, F.R.A.S.
Marlborough	424	J. C. Alsop.
Newcastle-on-Tyne.	152	N. H. Martin, F.C.S., F.R.S.E.
Newcastle (Wicklow).	256	B. H Steede, M.A., M.D.
Newquay	250?	C. C. Vigurs, B.A., M.D., for Urban Council.
Newton Rigg	559	W. T. Lawrence, for the Cumberland County Council.
Nottingham	82	J. Brown, A.M.I.C.E., City Engineer.
$ Ochtertyre	329	G. Croucher, for Sir P. K. Murray, Bt.
Oundle	144	J. O. Morris, for the Headmaster.
Oxford	202	A. A. Rambaut, M.A., F.R.S.
Plymouth	116	H. Victor Prigg, A.M.I.C.E., for the Corporation.
Port Talbot	179	G. Lipscombe, for Miss Talbot.
Prestwich	320	T. R. H. Clunn, M.D., F. R. Met. Soc.
* Ramsgate	—	T. J. Taylor, C.E., for the Corporation.
Rauceby Hall	125	J. Hope, for General Sir M. Willson, K.C.B.
Reading	261	Edward Little.
Rothamsted	368	The Lawes Agricultural Trust.
Rhyl	30	A. A. Goodall C.E., for District Council.
Rugby	379	Denys E. Shorto, M.A., and O. M. Samson, M.A.
ℳ Scarborough	62	W. W. Larkin, for the Corporation.
Seaham	148	G. H. Aird.
ℳ Shaftesbury	722	Rev. F. Ehlvers.
Sheffield	429	E. Howarth, F.R.A.S.
Shoeburyness	18	Asst. Supt. of Experiments.
Shrewsbury	191	Capt. C. St. B. Sladen, R.E., and Capt. Manser, R.E.
Southampton	78	A. Vaughan, R.E., for Director General, Ordnance Survey.
Southport	21	J. Baxendell, F. R. Met. Soc.
Stonyhurst	375	Staff of Observatory.
Strathpeffer Spa	253	R. Fortescue Fox, M.D.
ℳ Swarraton	310	Rev. W. L. W. Eyre, M.A., F. R. Met. Soc.
* Tenby	79	R. J. Truscott, for the Corporation.
Thurcaston	253	*The late* Rev. T. A. Preston, M.A., F. R. Met. Soc.
* Torquay	286	F. March, for the Corporation.
Totland Bay	84	J. Dover, M.A., F. R. Met. Soc.
ℳ Tunbridge Wells	419	F. G. Smart, M.A., M.B., F. R. Met. Soc.
Ventnor Hospital	80	C. Lewis, M.B., and Miss M. Gibson.
Waterford	100	J. N. White.
Wessington Court,	439	S. Lomas, for Miss L. Grafton.
* Westbourne	30	Rev. L. B. Birkett, M.A.
Whitby	88	T. Newbitt.
Wisley	150	The Superintendent, for the Roy. Hort. Society.
Woburn	291	H. M. Frecar, F.C.S., for the Royal Agricultural Society.
Wokingham	219	C. C. Chidell, M.D., and Dr. Stevenson.
* Worksop	56	H. Mellish, J.P., F. R. Met. Soc.
* Worthing	38	The Corporation.
York (Museum)	56	H. M. Platnauer, B.Sc.
* York (Bootham)	106	H. Richardson, M.A.

Stations marked "ℳ" report through the Royal Meteorological Society ; those marked "$" through the Scottish Meteorological Society.

NOTE.—The heights given are, as far as possible, those of the ground on which the rain-gauge stands. [taken as those of the Sunshine Recorders above the Sea.

* Where a station is prefixed by a star it indicates that the information published in this Volume is for Sunshine only. In these cases the heights given may be

ADDITIONS AND CORRECTIONS.

1.—ADDITIONS: Reports received too late for insertion in their proper places, in continuation of the lists published in the Weekly Reports.

ADDITIONS.—The values shown below must be inserted under the proper headings on the pages shown.

Twenty-Seventh Year. Volume XXI. (New Series). Weekly Issue.	Name of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 12, page 68	Ⓜ Scarborough	—	34	—	39·3	43·9	+ 2·2	25	8	—	—	—	—	—	—	—
No. 29, page 174	Edinburgh	—	—	—	—	—	—	—	—	—	—	—	33·3	+ 0·8	29	+ 1
No. 30, page 176	Ⓢ Ochtertyre	71	49	63·9	52·4	57·8	- 0·2	111	0	—	—	—	—	—	—	—
" " 180	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	41·7	—	39	—
" " "	Rhyl	—	—	—	—	—	—	—	—	—	—	—	27·3	—	25	—
No. 35, page 210	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	42·3	—	45	—
" " "	Rhyl	—	—	—	—	—	—	—	—	—	—	—	47·2	—	50	—
No. 37, page 218	Douglas	62	40	59·6	48·9	54·0	+ 0·1	84	0	2	0·93	+ 0·10	34·0	+ 0·5	39	+ 1
" " 222	Tenby	—	—	—	—	—	—	—	—	—	—	—	29·2	- 6·7	33	- 8
No. 38, page 228	Bognor	—	—	—	—	—	—	—	—	—	—	—	59·8	—	70	—
No. 39, page 234	Tenby	—	—	—	—	—	—	—	—	—	—	—	32·3	+ 1·3	39	+ 2
" " "	Guernsey	—	—	—	—	—	—	—	—	—	—	—	41·0	+ 6·0	50	+ 7
No. 42, page 248	Foynes	60	42	58·9	50·1	54·4	+ 6·0	87	0	4	1·68	+ 0·81	—	—	—	—
No. 43, page 258	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	20·6	—	39	—
" " "	Rhyl	—	—	—	—	—	—	—	—	—	—	—	25·2	—	37	—
No. 44, page 264	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	14·0	—	21	—
No. 46, page 276	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	21·3	—	35	—
No. 48, page 284	Lincoln	52	21	43·1	33·4	38·3	- 3·3	3	31	3	0·09	- 0·38	—	—	—	—
No. 49, page 290	Liverpool	—	—	—	—	—	—	—	—	—	—	—	13·8	—	27	—
" " 294	Cromer	—	—	—	—	—	—	—	—	—	—	—	5·4	—	10	—
" " "	Marlborough	—	—	—	—	—	—	—	—	—	—	—	9·4	+ 0·1	17	0
No. 50, page 300	Cromer	—	—	—	—	—	—	—	—	—	—	—	11·5	—	22	—
No. 51, page 302	Ⓜ Llandudno	57	30	43·5	33·4	38·7	- 3·1	4	33	0	0·00	- 0·69	24·4	+16·5	48	+32
" " "	Foynes	50	35	49·2	39·2	44·4	+ 2·5	29	8	0	0·00	- 1·03	—	—	—	—
" " 306	Cromer	—	—	—	—	—	—	—	—	—	—	—	28·1	—	55	—
" " "	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	21·6	—	42	—
" " "	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	23·5	—	44	—
" " "	Rhyl	—	—	—	—	—	—	—	—	—	—	—	25·5	—	50	—
No. 52, page 308	Southampton	55	36	47·8	39·9	44·0	+ 3·6	23	6	2	0·09	- 0·61	4·7	- 6·4	9	-12
" " "	Liverpool	—	—	—	—	—	—	—	—	—	—	—	4·0	—	8	—
" " 312	Cromer	—	—	—	—	—	—	—	—	—	—	—	9·2	—	18	—
" " "	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	3·7	—	7	—

2.—CORRECTIONS TO THE TABLES IN THE WEEKLY REPORTS.

NOTE.—Corrections are not included in this list unless the values as published are altered by at least 0°·5 in the case of Mean Temperature, and 4° in the case of Extreme Temperature, and to the extent of at least 5 per cent. of the amount of Rainfall or Sunshine.

I.—CORRECTIONS to Weekly Summaries for Districts. The values shown below must be substituted for those which have already appeared.

Page.	Districts.	Temperature. Highest.	Lowest.	Mean Max.	Mean Min.	Daily Mean.	Above or Below.	Rainfall. No. of Days.	Total Fall.	More or Less.	Bright Sunshine. Hours.	Difference.	Percentage.	Difference
No. 1, page 1	**4.** Midland Counties	54	—	43·7	—	—	—	—	—	—	—	—	—	—
No. 2, page 7	**0.** Scotland, N.	—	—	—	—	—	—	7	—	—	—	—	—	—
" "	**2.** England, N.E.	—	—	—	—	—	—	—	—	—	9	0	16	0
No. 3, page 13	**5.** England, S.	—	—	—	—	—	—	—	—	—	11	0	19	0
" "	— Channel Islands	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 7, page 37	**0.** Scotland, N.	—	—	—	—	—	—	—	2	—	—	—	—	—
" "	**5.** England, S.	—	—	—	—	—	—	—	14	—	—	—	—	—
No. 10, page 55	**7.** England, N.W.	—	—	—	—	—	—	—	—	—	19	—	27	—
No. 12, page 67	**2.** England, N.E.	—	—	—	—	—	—	3	—	—	—	—	—	—
" "	**5.** England, S.	—	—	—	—	—	—	3	—	—	18	- 7	1	- 8
No. 16, page 91	**4.** Midland Counties	—	—	—	—	—	—	—	1	3 less	—	—	—	—
" "	**6.** Scotland, W.	—	—	56·0	39·8	47·5	—	—	—	3 less	—	—	—	—
No. 17, page 97	**1.** Scotland, E.	—	—	—	—	—	—	—	—	—	46	+ 9	46	+ 9
No. 18, page 103	**0.** Scotland, N.	—	—	49·4	38·7	43·8	—	—	—	—	32·4	- 4	31	- 4
" "	**5.** England, S.	—	—	—	—	—	—	—	12	6 more	—	—	—	—
No. 19, page 109	**0.** Scotland, N.	—	—	50·1	39·3	44·4	—	—	—	3 more	—	—	—	—
" "	**4.** Midland Counties	—	—	—	—	—	—	—	9	—	—	—	—	—
No. 20, page 115	**0.** Scotland, N.	—	—	54·8	41·7	47·8	0 (average)	3	—	—	—	—	—	—
No. 21, page 121	**4.** Midland Counties	74	—	—	48·5	54·5	—	4	—	—	—	—	—	—
No. 22, page 127	**4.** Midland Counties	—	—	—	—	—	—	—	9	5 more	—	—	—	—
" "	**6.** Scotland, W.	—	—	67·2	46·7	56·3	4 above	6	6	0 (average)	—	—	—	—
No. 24, page 139	**0.** Scotland, N.	68	—	59·4	46·9	—	—	—	16	1 less	—	—	—	—
No. 30, page 175	**5.** England, S.	—	—	—	—	—	—	—	—	10 more	—	—	—	—
No. 34, page 199	**6.** Scotland, W.	—	—	—	—	—	—	—	—	—	33	-17	31	-16
No. 37, page 217	**6.** Scotland, W.	—	—	61·6	46·5	53·7	—	5	7	3 less	—	—	—	—
No. 42, page 247	**5.** England, S.	—	—	—	—	—	—	—	—	—	—	—	—	—
" "	**10.** Ireland, S.	—	—	—	—	—	—	—	—	—	10	—	14	—
No. 44, page 259	**7.** England, N.W.	—	—	—	—	—	—	—	12	—	—	—	—	—
" "	**8.** England, S.W.	—	—	—	—	—	—	—	—	—	7	—	11	—
No. 45, page 265	**7.** England, N.W.	—	—	—	—	—	—	—	—	—	6	—	9	—
" "	**8.** England, S.W.	—	—	—	—	—	—	—	18	—	10	—	17	—
No. 46, page 271	**10.** Ireland, S.	—	—	—	—	—	—	—	20	—	13	—	20	—
No. 48, page 283	**7.** England, N.W.	—	—	46·4	—	—	—	—	—	—	6	—	10	16
No. 49, page 289	**0.** Scotland, N.	—	—	—	—	—	—	—	—	—	—	—	—	—
No. 50, page 295	**6.** Scotland, W.	—	—	—	—	—	—	—	17	5 more	—	—	—	—
No. 51, page 301	**7.** England, N.W.	57	—	38·5	28·6	33·8	6 below	—	0	—	8	—	17	—
No. 52, page 307	**3.** England, E.	—	—	—	—	—	—	—	—	—	13	+ 6	25	+ 11
" "	**8.** England, S.W.	—	—	—	—	—	—	3	—	—	8	—	16	—

II.—CORRECTIONS to Tables of values for individual Stations :—

ERRATA.—The values shown below must be substituted for those which have already appeared.

Twenty-Seventh Year. Volume XXI. (New Series). Weekly Issue.	Name of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours Recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 7, page 38	Dungeness	—	—	—	—	—	—	—	—	—	—	—	20·1	—	29	—
No. 15, page 86	ℳ Hereford	—	—	56·0	—	47·3	+ 1·3	48	—	—	—	—	—	—	—	—
No. 28, page 164	Markree Castle	—	—	—	52·3	60·4	+ 3·6	129	—	—	—	—	—	—	—	—
No. 36, page 212	ℳ Scarborough	—	—	64·5	51·5	57·7	+ 1·9	110	—	—	—	—	—	—	—	—
No. 43, page 254	ℳ Shaftesbury	—	—	—	42·7	48·7	+ 2·7	47	—	—	—	—	—	—	—	—
" " "	Jersey	—	—	—	—	—	—	—	—	3	0·07	- 0·93	—	—	—	—
No. 44, page 260	Sumburgh Head	—	—	—	—	—	—	—	—	—	1·22	+ 0·26	—	—	—	—
" " "	ℳ Hillington	—	—	51·8	—	48·6	+ 3·6	46	—	—	—	—	—	—	—	—
" " "	ℳ Cheadle	—	—	—	—	—	—	—	—	2	0·05	- 0·67	—	—	—	—
" " "	Shrewsbury	—	—	—	—	—	—	—	—	1	0·03	—	—	—	—	—
" " "	ℳ Tunbridge Wells	—	—	—	43·7	47·4	+ 2·4	38	—	—	—	—	—	—	—	—
No. 45, page 266	Birr Castle	—	—	—	—	—	—	—	—	—	—	—	6·7	- 9·7	11	- 16
No. 46, page 272	ℳ Scarborough	—	—	—	—	—	—	—	—	—	—	—	19·8	—	34	—
" " "	Portland Bill	—	—	—	45·0	49·3	+ 2·7	51	—	—	—	—	—	—	—	—
" " "	Dublin	—	—	—	—	—	—	—	—	—	—	—	10·6	- 5·8	18	- 10
" " "	Birr Castle	—	—	—	—	—	—	—	—	—	0·09	- 0·59	—	—	—	—
" " "	Scilly	56	—	55·0	—	—	—	—	—	—	—	—	—	—	—	—
No. 47, page 278	Clacton-on-Sea	45	—	38·6	—	34·0	- 8·8	—	56	—	—	—	—	—	—	—
" " "	Glasgow	—	—	—	—	—	—	—	—	—	0·15	- 0·73	—	—	—	—
" " "	ℳ Cullompton	—	—	41·8	28·4	—	—	—	48	—	—	—	—	—	—	—
No. 48, page 284	ℳ Scarborough	—	—	—	—	—	—	—	—	—	—	—	9·7	—	18	—
" " "	ℳ Hillington	—	—	—	33·6	38·2	- 1·8	—	30	3	0·05	- 0·52	—	—	—	—
" " "	Nottingham	—	—	—	—	—	—	—	—	4	0·07	- 0·37	—	—	—	—
" " "	Shrewsbury	—	—	—	—	—	—	—	—	—	0·26	—	—	—	—	—
" " "	Ramsgate	—	—	—	—	—	—	—	—	—	—	—	6·4	—	—	—
No. 50, page 296	Stornoway	—	—	45·6	—	40·9	+ 1·4	10	—	—	—	—	—	—	—	—
" " "	Laudale	—	—	46·3	—	41·5	+ 0·6	12	24	—	—	—	—	—	—	—
" " "	Glasgow	—	—	—	—	—	—	—	—	—	—	—	1·2	- 2·6	3	—
" " "	Aspatria	—	—	—	—	—	—	—	—	—	—	—	6·3	—	13	—
" " "	Douglas	—	—	—	—	—	—	—	—	—	2·19	+ 1·12	—	—	—	—
No. 51, page 302	ℳ Hereford	—	—	35·9	29·0	32·8	- 6·1	—	66	—	—	—	—	—	—	—
" " "	London	—	—	—	—	—	—	—	—	—	—	—	1·3	- 3·3	3	- 6
" " "	Laudale	50	—	46·6	—	43·5	+ 3·0	18	—	—	—	—	—	—	—	—
" " "	ℳ Blackpool	—	—	—	—	—	—	—	—	—	—	—	5·9	+ 0·3	12	+ 1
No. 52, page 308	ℳ Hereford	—	26	—	34·1	39·4	+ 0·8	—	31	—	—	—	—	—	—	—
" " "	Oxford	—	—	—	—	—	—	—	—	—	—	—	7·2	- 2·5	14	- 5
" " "	ℳ Tunbridge Wells	—	—	44·7	—	40·7	+ 2·3	8	—	—	—	—	—	—	—	—
" " "	ℳ Blackpool	—	—	42·8	—	38·7	- 0·2	2	29	—	0·12	- 0·57	—	—	—	—
" " 312	Southport	—	—	—	—	—	—	—	—	—	—	—	7·5	—	15	—

3.—CORRECTIONS TO THE TABLES IN THE MONTHLY SUMMARIES.

NOTE.—Corrections to the Temperature values are not included in this list unless the mean as printed is altered by more than 0°·1.

January, p. iv. ... Stornoway.—Sunshine. For "19·0, —10·7," read "20·0, — 9·7."
York.—Sunshine. For "7·8" read "27·8."
p. vi. ℳ Hillington.—Temperature—Mean maximum. For "2°·8" read "42°·8."
Shoeburyness.—Temperature—Absolute minimum. For "27°·" read "26°·."
p. vii. ... Harrogate.—Rainfall. For "3·32, + 0·85," read "2·82, + 0·35."
p. viii. ... Aberdovey.—Sunshine. For "53·5*, 2*," read "53·5*, 21*."
Kingstown.—Temperature. For "38°·2, 47°·5, 42°·9, 33°·0 16th, 31st," read "39°·4, 47°·5, 43°·5, 33°·5 16th, 31st."

February, p. xii. ... Garforth.—Temperature. For "41°·1, 36°·2," read "41°·3, 36°·3."
p. xiv. ... Buntingford.—Sunshine. For "75·0, 26," read "—, —."
p. xv. ... Margate.—Sunshine. For "63°·9, — 7°·4," read "62°·7, — 8°·6."

March, p. xxii. ... Buntingford.—Sunshine. For "90·3, 25," read "—, —."
p. xxiii. ...ℳ Cheadle.—Rainfall.—Number of days. For "16," read "17."

April, p. xxx. ... Buntingford.—Sunshine. For "141·0, 34," read "—, —."
p. xxxi. ... Bawtry.—Rainfall. For "1·04, — 0·57," read "1·06, — 0·55."
ℳ Hereford.—Temperature. "For 40°·6, 56°·7," read "40°·8, 56°·5."

May, p. xxxvi, ... London.—Date of Absolute maximum. For "28th," read "26th."
p. xxxviii. ... Cromer.—Rainfall.—Difference from Average. For "— 0·24," read "—."

June, p. xlv. ... Pembroke.—Weather.—No. of Days of Gale. For "3," read "2."

July, p. liii. ... Strathpeffer.—Rainfall. For "0·71?," read "0·61."
Weather—No. of days of Rain. For "12?" read "11."
p. lv. ℳ Hereford.—Temperature. For "53°·0, 72°·7, 62°·9, + 1°·8," read "53°·4, 72°·7, 63°·1, + 2·0."

August, p. lxiii. ... Birr Castle.—Rainfall—Difference from average. For "+ 0·69," read "— 0·69."

September, p. lxix. ... Wessington Court.—Humidity. For "·355, 85%," read "·342, 82%."
p. lxxi. ...ℳ Cheadle.—Temperature. For "46°·6, 61°·3, 54°·0, — 0°·2," read "46°·4, 61°·3, 53°·9, — 0°·3."
Wokingham.—Temperature. For "42°·5, 63°·2, 52°·9," read "42°·5, 62°·9, 52°·7."

October, p. lxxx. ... Killarney.—Rainfall. For "21, 3·13, — 2·53, 0·62 18th," read "19, 2·81, — 2·85, 0·62 16th."

November, p. lxxxvi. ... Birr Castle.—Sunshine. For "42·0, — 21·8," read "43·1, — 20·7."
ℳ Scarborough.—Sunshine. For "70·2, 28," read "72·3, 29."
p. lxxxviii.... Killarney.—Rainfall.—Date of maximum in one day. For "8th," read "6th."

December, p. xciv. ...ℳ Scarborough.—Temperature. For "34°·8, ?, —, —," read "34°·8, ? 44°·9, ? 39°·9, + 0°·9."

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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VOL. XXVII. No. 1.] *Vol. XXI., New Series.* WEEK ENDING SATURDAY, JANUARY 9TH, 1904. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 2.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	24	43·3	34·1	38·9	1 above	4	− 2	30	− 5	4	− 2	30	− 5
	1. SCOTLAND, EAST	49	25	42·6	32·8	37·9	1 above	2	− 5	34	− 8	2	− 5	34	− 8
	2. ENGLAND, N.E.	47	28	42·7	33·1	38·1	0 (average)	2	− 6	33	− 4	2	− 6	33	− 4
	3. ENGLAND, EAST	48	27	42·6	33·9	38·4	1 above	2	− 6	30	−11	2	− 6	30	− 11
	4. MIDLAND COUNTIES	49	28	43·6	32·5	38·3	1 above	4	− 5	36	− 6	4	− 5	36	− 6
	5. ENGLAND, SOUTH	49	28	44·4	35·8	40·3	1 above	7	− 5	25	− 7	7	− 5	25	− 7
Principal Grazing Districts.	6. SCOTLAND, WEST	48	30	44·2	36·4	40·5	1 above	6	− 5	23	− 6	6	− 5	23	− 6
	7. ENGLAND, N.W.	53	27	44·2	34·5	39·5	0 (average)	6	− 4	29	0	6	− 4	29	0
	8. ENGLAND, S.W.	52	27	47·2	37·6	42·6	2 above	23	+ 7	12	−10	23	+ 7	12	− 10
	9. IRELAND, NORTH	49	30	44·5	35·9	40·4	0 (average)	7	− 7	25	− 1	7	− 7	25	− 1
	10. IRELAND, SOUTH	53	32	47·5	37·8	42·9	1 above	24	+ 3	12	− 8	24	+ 3	12	− 8
	— CHANNEL ISLANDS	52	36	48·0	42·3	45·2	1 above	22	− 3	0	−10	22	− 3	0	− 10

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 2.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	17	4 more	5	0	1·7	+ 0·4	5	− 1	10	− 1	5	− 1	10	− 1
	1. SCOTLAND, EAST	4	7	1 more	4	0	0·7	+ 0·1	5	− 4	10	− 8	5	− 4	10	− 8
	2. ENGLAND, N.E.	4	3	2 less	4	0	0·3	− 0·2	4	− 4	7	− 7	4	− 4	7	− 7
	3. ENGLAND, EAST	4	4	0 (average)	4	0	0·4	0·0	5	− 6	10	−11	5	− 6	10	−11
	4. MIDLAND COUNTIES	6	6	0 (average)	6	+ 2	0·6	0·0	3	− 6	5	−11	3	− 6	5	−11
	5. ENGLAND, SOUTH	5	7	1 more	5	+ 1	0·7	+ 0·1	4	− 6	7	−11	4	− 6	7	−11
Principal Grazing Districts.	6. SCOTLAND, WEST	5	18	6 more	5	0	1·8	+ 0·6	5	− 4	10	− 7	5	− 4	10	− 7
	7. ENGLAND, N.W.	5	10	3 more	5	+ 1	1·0	+ 0·3	6	− 2	11	− 3	6	− 2	11	− 3
	8. ENGLAND, S.W.	6	12	3 more	6	+ 2	1·2	+ 0·3	7	− 4	13	− 6	7	− 4	13	− 6
	9. IRELAND, NORTH	5	12	5 more	5	0	1·2	+ 0·5	4	− 5	8	−10	4	− 5	8	−10
	10. IRELAND, SOUTH	6	17	7 more	6	+ 1	1·7	+ 0·7	9	− 3	18	− 5	9	− 3	18	− 5
	— CHANNEL ISLANDS	7	16	8 more	7	+ 2	1·6	+ 0·8	10	− 3	18	− 5	10	− 3	18	− 5

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this period was dull and unsettled very generally, with a good deal of rain in the most western and northern districts, and frequent, but less heavy falls in the east and south.

Temperature was slightly above the normal over the country as a whole, but only just equal to the average in England N.E. and N.W. and Ireland N. The highest of the maxima were recorded on rather variable dates, and ranged from 53° in England N.W. and Ireland S. to 47° in England N.E. The lowest of the minima, which occurred, as a rule, about the middle of the week, ranged from 24° in Scotland N., 25° in Scotland E., and 27° or 28° in most other districts, to 32° in Ireland S., and 36° in the Channel Islands.

Rainfall was considerably more than the normal in Scotland N. and most western districts, and slightly so in the south of England and east of Scotland. Over the centre and east of England, however, the fall was only equal to the mean, and in England N.E. rather less.

Bright Sunshine was deficient in all districts. The percentage of the possible duration ranged from 18 in the Channel Islands, and Ireland S., and 13 in England S.W., to 7 in England S. and N.E., and to 5 in the Midland Counties.

Barometer and Wind. The general type of pressure distribution during the week was Southerly and South-Westerly, the barometer being highest on the Continent, while depressions moved northwards or north-eastwards outside our western and northern coasts. Some of these systems were deep, and were accompanied by strong winds or gales. There was, however, one exception, as a depression which appeared off our south-western coast on Monday subsequently travelled south-eastwards and dispersed over France. With this change in the distribution the wind shifted to the South-Eastward or Eastward in all the more southern districts; but by Wednesday morning the Southerly current had become re-established on all except our south-east coasts.

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II.—DATA from which the SUMMARY on page 1 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	47	36	43·7	39·1	41·5	+ 2·3	5	12	7	1·34	+ 0·42	*	*	*	*
	Stornoway	46	26	44·6	34·3	39·7	+ 0·8	7	31	6	1·79	+ 0·63	6·8	+ 0·6	15	+ 1
	Wick	46	30	43·7	34·7	39·4	+ 1·6	5	28	4	0·22	- 0·34	*	*	*	*
	Lairg §	43	24	40·7	29·7	35·4	+ 0·6	0	46	5	0·46	- 0·39	*	*	*	*
	Glencarron §	49	26	43·6	32·3	38·2	+ 1·1	4	37	5	2·96	+ 0·68	*	*	*	*
	Fort Augustus §	46	26	42·9	33·4	38·3	+ 0·1	3	32	5	2·25	+ 1·11	?	?	?	?
	Fort William	49	27	43·9	35·4	39·8	+ 1·0	5	25	5	2·88	+ 0·72	1·5	- 2·9	3	- 6
1. SCOTLAND, E.	Nairn	47	25	42·7	31·4	37·3	- 0·2	2	39	3	0·13	- 0·34	*	*	*	*
	Aberdeen	46	33	43·4	35·3	39·5	+ 1·9	4	25	5	0·58	+ 0·01	1·3	- 9·2	3	- 20
	Braemar §	43	30	39·2	32·7	36·1	+ 1·8	0	41	5	0·97	+ 0·29	*	*	*	*
	Ochtertyre §	46	30	42·7	33·1	38·1	+ 1·4	2	33	6	1·73	+ 0·67	*	*	*	*
	Leith	49	27	46·0	32·3	39·4	+ 0·3	11	39	3	0·52	+ 0·11	*	*	*	*
	Marchmont §	45	30	41·7	32·1	37·1	+ 0·7	0	34	3	0·31	- 0·32	9·5	+ 1·0	19	+ 2
2. ENGLAND, N.E.	Alnwick Castle	46	28	43·2	31·6	37·6	- 0·3	3	39	4	0·37	- 0·18	*	*	*	*
	Durham	45	30	41·8	32·3	37·2	+ 0·3	0	34	3	0·29	- 0·19	5·2	- 4·8	10	- 9
	Shields	47	32	44·3	34·0	39·4	+ 0·8	6	31	2	0·11	- 0·32	*	*	*	*
	Scarborough ℳ	46	31	43·0	33·7	38·5	- 0·1	3	31	6	0·46	- 0·05	3·5	—	7	—
	Spurn Head	46	32	42·4	34·4	38·6	0·0	1	28	5	0·14	- 0·23	*	*	*	*
	Lincoln	46	30	41·3	32·8	37·2	0·0	0	34	3	0·25	- 0·14	*	*	*	*
	Fulbeck (Lincolnshire)	—	—	—	—	—	—	—	—	3	0·16	- 0·24	1·1	—	2	—
3. ENGLAND, E.	Hillington ℳ	46	28	42·8	33·2	38·2	+ 1·4	2	33	3	0·41	- 0·08	5·3	- 4·3	10	- 8
	Yarmouth	44	34	42·1	36·3	39·3	+ 1·8	0	21	4	0·35	- 0·12	*	*	*	*
	Geldeston	46	27	42·8	33·7	38·4	+ 0·5	2	31	5	0·50	+ 0·08	7·5	- 3·8	14	- 7
	Cambridge	48	27	43·1	32·0	37·8	+ 0·3	3	38	4	0·11	- 0·25	1·4	- 8·9	3	- 17
	Felixstowe	42	34	40·9	36·7	38·9	+ 0·5	0	22	4	0·68	—	11·4†	—	21†	—
	Clacton-on-Sea	43	34	42·0	35·0	38·6	- 0·8	0	24	5	0·42	—	11·3	—	21	—
	Rothamsted	47	29	43·6	31·3	37·7	+ 0·2	4	40	6	0·28	- 0·27	2·8	- 6·8	5	- 13
	Shoeburyness	45	31	43·3	33·3	38·5	- 0·3	4	33	4	0·41	+ 0·05	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	46	29	42·0	31·0	36·7	- 0·2	0	37	6	0·75	+ 0·16	3·0	—	6	—
	Bawtry (Hesley Hall)	47	28	43·0	31·3	37·4	0·0	3	40	5	0·51	+ 0·09	*	*	*	*
	Nottingham	48	31	44·1	32·1	38·3	+ 0·6	6	38	7	0·34	- 0·17	1·2	—	2	—
	Colly Weston (Stamford)	49	28	42·6	31·4	37·2	+ 0·2	2	39	5	0·22	- 0·23	*	*	*	*
	Cheadle ℳ	46	29	41·6	33·6	37·8	+ 1·2	0	29	6	0·78	+ 0·14	*	*	*	*
	Birmingham (Edgbaston)	47	29	43·1	34·6	39·0	+ 1·1	3	28	5	0·62	+ 0·13	3·3	—	6	—
	Shrewsbury	49	29	45·5	34·4	40·2	+ 1·5	10	31	5	0·32	—	*	*	*	*
	Hereford ℳ	48	31	45·0	33·3	39·4	+ 0·9	8	34	6	1·04	+ 0·48	*	*	*	*
	Cirencester	48	28	44·5	30·1	37·6	0·0	7	46	6	0·57	- 0·08	6·1	- 4·2	11	- 8
	Oxford	49	28	44·9	33·3	39·3	+ 0·9	8	34	5	0·44	- 0·03	4·0	- 5·9	7	- 11
5. ENGLAND, S.	London	47	31	44·9	34·3	39·8	+ 1·0	8	30	5	0·27	- 0·18	0·9‡	- 4·1‡	2‡	- 8‡
	Swarraton (Alresford) ℳ	48	28	43·8	32·6	38·4	+ 0·7	5	36	6	0·64	- 0·06	*	*	*	*
	Tunbridge Wells	46	29	42·6	33·1	38·0	+ 0·2	2	33	6	0·90	—	2·1	—	4	—
	Dungeness	46	34	44·9	37·0	41·1	+ 1·5	8	21	5	0·64	+ 0·20	4·4	—	8	—
	Hastings (St. Leonards)	46	34	43·5	37·2	40·5	+ 0·8	4	19	6	0·90	+ 0·27	4·2	- 8·5	8	- 15
	Southampton	49	31	45·4	35·6	40·7	+ 0·8	10	26	4	0·59	- 0·11	3·1	- 8·1	6	- 15
	Portland Bill	48	38	46·7	41·0	44·0	+ 2·5	18	3	5	0·54	—	*	*	*	*
	Shaftesbury ℳ	48	31	43·4	35·4	39·6	+ 2·4	4	25	6	0·69	- 0·01	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	47	32	44·9	37·2	41·2	+ 1·0	8	20	5	4·36	+ 2·41	*	*	*	*
	Glasgow	48	35	42·6	37·0	39·9	+ 1·4	2	19	4	1·21	+ 0·31	0·5	- 4·1	1	- 8
	Cally §	45	30	43·6	35·9	39·9	+ 1·5	4	24	4	1·20	+ 0·08	*	*	*	*
	Aspatria	48	31	44·6	34·5	39·8	+ 2·0	7	30	4	1·04	—	8·1	—	16	—
	Douglas (Isle of Man)	48	34	45·5	37·6	41·7	+ 0·9	10	19	6	1·16	+ 0·16	7·4	- 3·0	14	- 6
7. ENGLAND, N.W.	Newton Rigg	44	30	42·4	31·5	37·2	+ 1·0	1	39	5	1·01	—	7·6	—	15	—
	Stonyhurst	45	33	41·6	34·8	38·3	+ 0·6	0	26	6	1·05	+ 0·06	1·1	- 5·9	2	- 11
	Blackpool ℳ	47	30	43·6	33·4	38·7	+ 0·2	4	33	5	1·06	+ 0·39	4·8	- 2·7	9	- 5
	Manchester (Prestwich)	46	29	42·5	33·6	38·2	+ 0·3	1	31	5	0·67	- 0·09	1·1	—	2	—
	Liverpool Obsy. (Bidston)	48	30	44·3	33·6	39·2	- 0·3	6	33	6	0·48	- 0·06	4·1	—	8	—
	Chester (Hawarden Bridge)	51	31	45·8	34·6	40·4	+ 0·3	11	30	5	0·73	—	*	*	*	*
	Llandudno ℳ	53	33	46·3	36·7	41·7	+ 0·1	12	23	5	0·94	+ 0·29	12·9	+ 3·4	24	+ 6
	Holyhead	49	34	46·0	38·1	42·2	- 0·2	18	11	6	1·83	+ 1·05	*	*	*	*
	Bettws-y-Coed	49	27	45·4	33·8	39·8	- 1·5	10	32	6	1·34	—	1·7	—	3	—
8. ENGLAND, S.W.	Pembroke	50	37	48·1	41·7	45·0	+ 2·1	22	1	6	1·57	+ 0·70	7·5	- 3·9	14	- 7
	Clifton	50	33	46·5	36·1	41·5	+ 1·9	13	25	5	0·62	- 0·15	*	*	*	*
	Bath	51	29	46·9	33·7	40·6	+ 0·8	14	35	6	0·56	- 0·11	4·0	—	7	—
	Arlington (N. Devon)	49	32	45·6	36·3	41·1	+ 1·2	10	24	6	1·43	+ 0·30	*	*	*	*
	Cullompton ℳ	51	27	46·8	34·0	40·7	+ 1·1	13	33	6	1·08	+ 0·28	7·5	- 1·8	13	- 3
	Falmouth	52	39	48·2	41·2	44·8	+ 1·1	23	2	7	2·16	+ 0·96	9·5	- 3·1	17	- 6
	Plymouth	51	37	48·4	40·3	44·5	+ 2·4	25	5	6	1·25	+ 0·35	9·2	- 1·8	16	- 3
9. IRELAND, N.	Malin Head	45	34	43·4	36·9	40·3	- 1·2	4	20	5	0·68	+ 0·06	*	*	*	*
	Edenfel (Omagh)	47	30	42·4	33·0	37·9	+ 0·2	1	33	5	1·08	+ 0·28	*	*	*	*
	Blacksod Point	49	36	46·1	38·9	42·6	- 0·2	17	9	7	2·60	+ 1·40	*	*	*	*
	Markree Castle	48	32	44·7	34·0	39·6	+ 0·2	8	32	6	1·22	+ 0·34	2·1	- 6·7	4	- 13
	Armagh	47	34	44·4	35·2	40·0	+ 1·3	7	27	5	1·19	+ 0·55	5·8	- 3·9	11	- 8
	Donaghadee	48	32	46·0	37·1	41·7	+ 1·2	11	21	4	0·69	+ 0·05	*	*	*	*
10. IRELAND, S.	Dublin	52	32	47·6	36·5	42·3	+ 0·7	25	15	5	1·31	+ 0·78	14·1	+ 1·4	27	+ 3
	Birr Castle	50	33	46·4	36·4	41·6	+ 2·0	12	24	6	1·19	+ 0·52	7·2	- 4·0	12	- 8
	Kilkenny	50	32	47·7	36·1	42·1	+ 1·3	25	17	6	1·17	+ 0·41	*	*	*	*
	Waterford	53	34	47·6	37·7	42·9	+ 1·8	24	12	4	1·55	+ 0·55	*	*	*	*
	Roche's Point	50	37	47·6	40·7	44·3	+ 0·8	22	4	6	1·54	+ 0·36	*	*	*	*
	Valencia	53	36	48·6	40·1	44·5	- 0·1	25	5	6	2·58	+ 1·18	6·5	- 4·9	12	- 9
	Killarney	50	35	47·9	38·6	43·4	+ 0·2	24	10	6	2·64	+ 1·16	*	*	*	*
	Foynes	52	34	46·7	36·5	41·8	+ 0·3	13	24	5	1·32	+ 0·46	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	41	50·0	44·4	47·3	+ 1·4	37	0	7	1·65	+ 0·79	10·2	- 2·8	18	- 5
	Jersey	48	36	45·9	40·1	43·1	+ 0·3	16	5	7	1·54	+ 0·77	7·6	- 7·2	13	- 12

Stations Marked ℳ are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

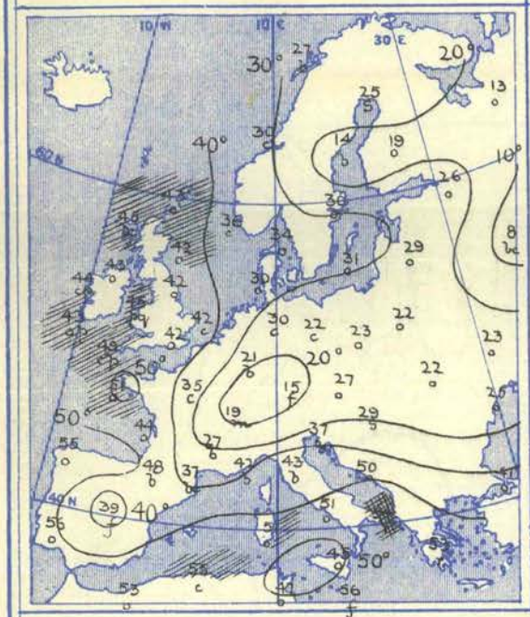
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 30 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

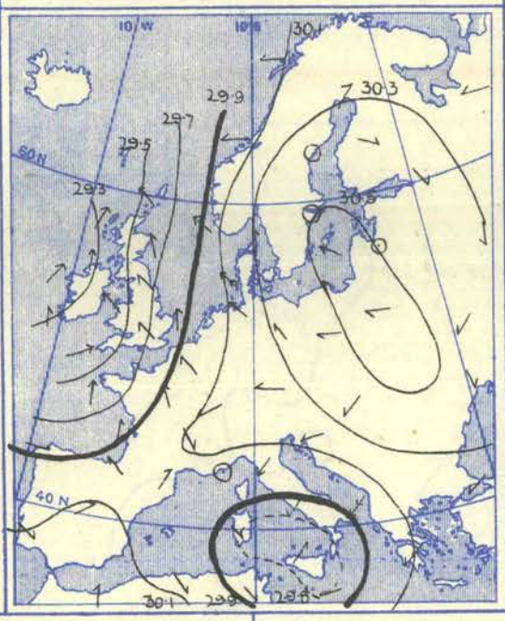
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 3rd January, 1904.

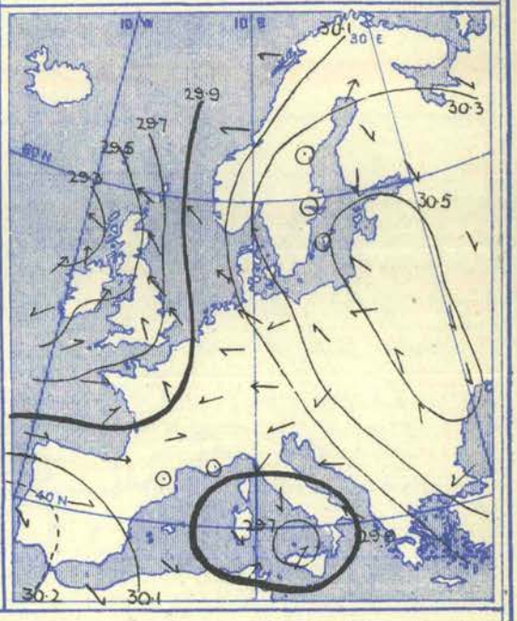
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. showery at some of our western and southern stations, and rainy in Greece, at Brindisi, and La Calle; cloudy or dull in most other regions, but fine and bright over the southern half of France. Rather heavy rain falling later in the south of Ireland, Brittany, the south of France, and Algeria, as well as in many parts of Italy and on the shores of the Adriatic. Largest amount, 1·2 ins. at Brindisi.

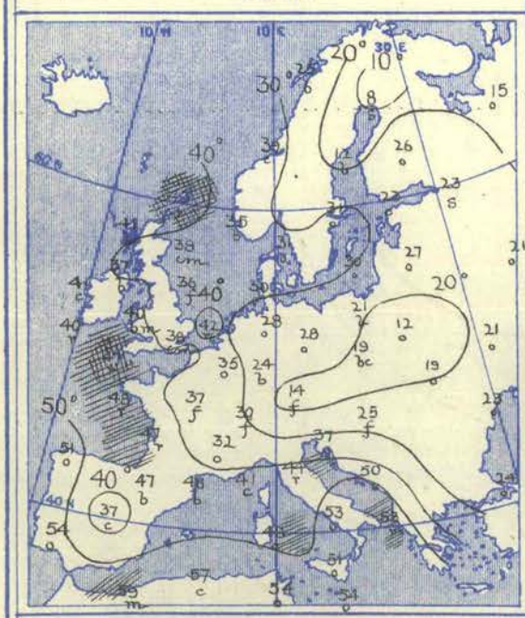
Temperature risen generally, but fallen in central and southern Russia. Readings at 8 a.m. ranging from 57° at Alicante, 56° at Malta, and above 50° in the extreme south as a whole, to below 20° over the major portion of the Continent, to 8° at Moscow, and to 2° at Kharkov. Just touching 50° at Scilly during day, and exceeding that value at stations in the far south; highest maximum, 64° at Oran. Frost continuing all day over central and northern Europe, and also in the north-east of France.

Wind at 8 a.m. fresh or strong from South or South-East over our Islands, and strong to a gale on the eastern shores of the North Sea. Light and anticyclonic over the major portion of the Continent, but an irregular cyclonic circulation prevailing over Italy and the Mediterranean. North-Easterly current blowing strongly at Florence and a fresh gale at Brindisi. Latter subsiding somewhat by evening, but a moderate gale from South-West setting in at Tunis. Wind backing over the northern part of our Islands, and veering in the south and south-west, and also in the west of France.

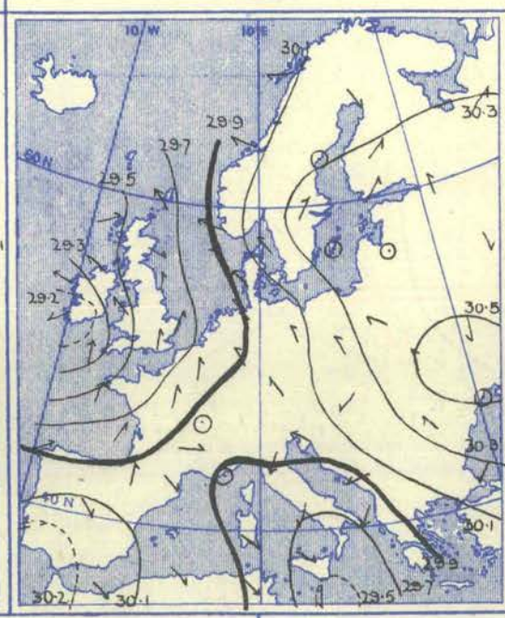
Barometer at 8 a.m. ranging from 30·2 ins. to 30·5 ins. in a large anticyclone embracing the eastern half of Europe, to 29·8 ins. and less in a depression over Sicily and its neighbourhood, and to below 29·3 in another system off our north-west coasts. Anticyclone increasing somewhat in intensity and moving south-eastwards during day; and disturbance off our north-west coasts also moving north-eastward. Mediterranean depression increasing somewhat in depth.

Monday, 4th January, 1904.

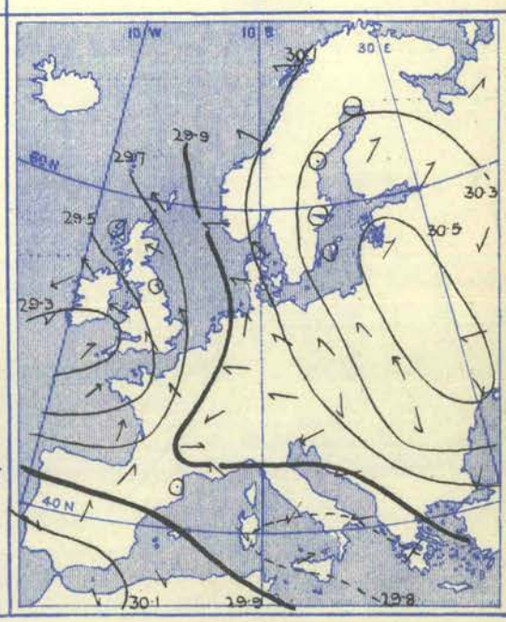
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. still fine and bright in the south of France; cloudy or dull elsewhere, with fog in many parts of England and at some stations in central Europe. Rain falling in the south-western parts of our area, in Italy, and at Aumale, and snow at St. Petersburg. Rain becoming general over the United Kingdom later, and some large quantities falling in the west of France and in Italy—as much as 2·5 ins. at Florence.

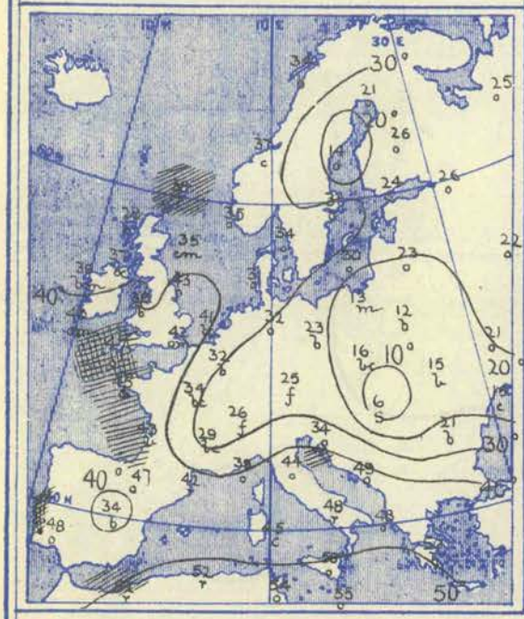
Temperature fallen generally, but risen in Algeria. Morning readings ranging from 59° at Nemours and 57° at Algiers and La Calle, to a little above 30° over central England, to below 30° over Europe as a whole, and to below 20° at some Russian, Austria-Hungarian, and Swedish stations. Lowest values, 12° at Kharkov and Warsaw, 10° at Hermanstadt, and 8° at Haparanda. Frost continuing all day in most central and northern parts of the Continent, but thermometer rising to 61° on the coast of Algeria, and to 64° at Palermo.

Wind at 8 a.m anticyclonic over the major portion of the Continent, but cyclonic both over the Mediterranean and the United Kingdom. Light to moderate or fresh in force as a whole, but strong to a gale from North-East and North-West respectively at Brindisi and Tunis, and from the Eastward at Skudesnaes. Scarcely any change occurring later, but force of wind decreasing in many localities.

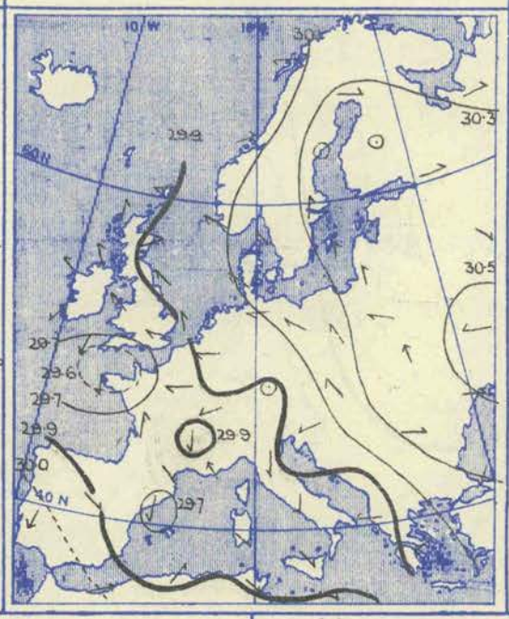
Barometer at 8 a.m. ranging from 30·5 ins. and upwards in the central part of an anticyclone lying over the south-west of Russia, to 29·6 ins. and less in a depression near Malta, and to less than 29·2 ins. in another over the south of Ireland. No change in the general distribution during day, but depression near Malta extending eastwards to Greece, and that over the south of Ireland becoming less deep. Pressure giving way decidedly over the Bay of Biscay and the west of France.

Tuesday, 5th January, 1904.

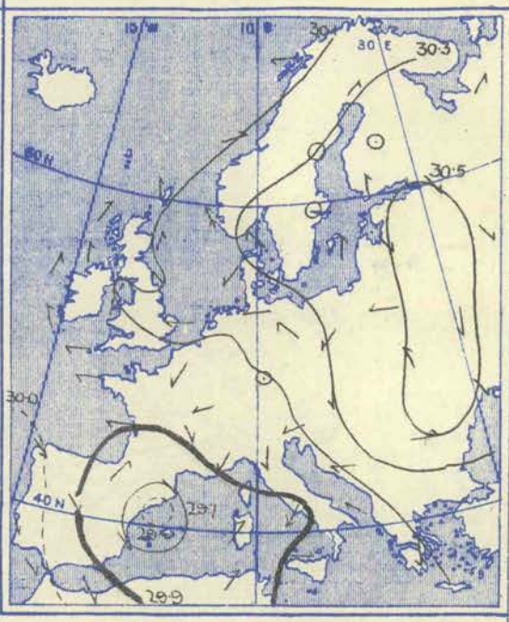
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine and bright at a few isolated stations, but cloudy or dull as a whole. Rain falling in the Shetlands, at Karlstad, and in some southern regions of Europe, and snow at Buda Pesth. Very little precipitation occurring except in the south; largest amounts, 1·9 ins. at Perpignan, and 2·3 ins. at Nemours. More than 1·3 ins. falling at Pesaro.

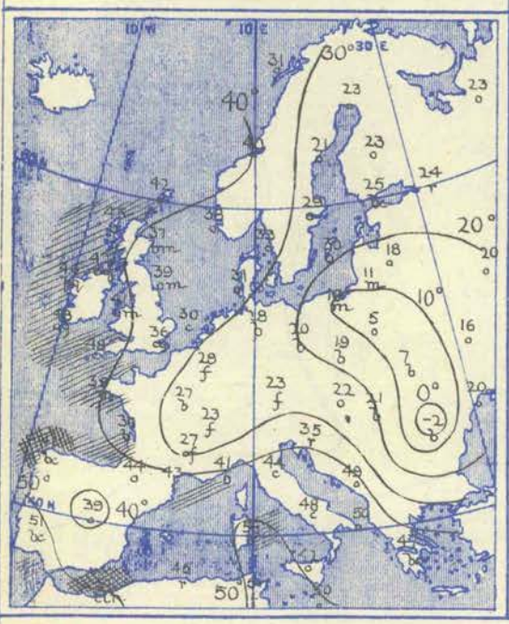
Temperature changed irregularly. Readings at 8 a.m. ranging from 55° at Malta and Oran, 48° at Lisbon, and 47° at Scilly, to 29° at Stornoway, to several degrees lower over the eastern and central parts of the Continent generally, to 7° at Cracow, 6° at Buda-Pesth, and to 5° at Nicolaieff. Maxima during day 61° at Palma and La Calle, and between 60° and 50° in the extreme south as a whole, but thermometer only touching 36° at Turin, and remaining below 32° in the central and eastern regions.

Wind light and anticyclonic over the eastern half of Europe, mainly cyclonic in the west and south-west. Easterly breeze blowing strongly on the Welsh coast, and South-Easterly wind fresh at Cape Sicié. Anticyclonic airs spreading to our Islands later, but cyclonic circulation in the south becoming more decided. A South-South-Easterly gale setting in on the south-west coast of Norway.

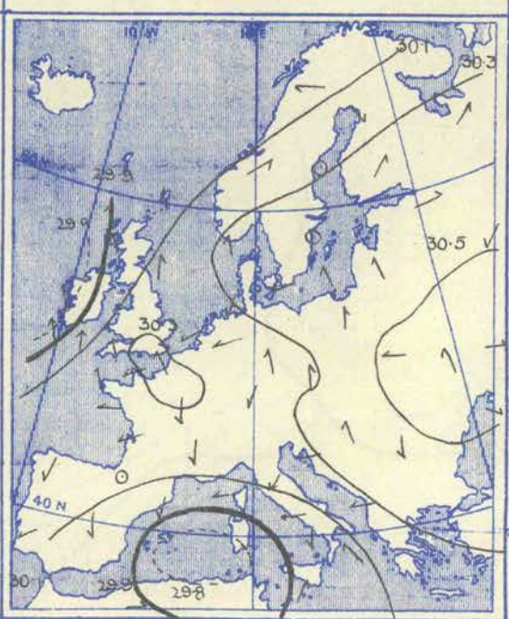
Barometer at 8 a.m. highest, 30·5 ins. and upwards in the central portion of an anticyclone lying over Russia; lowest, about 29·6 ins. in a cyclonic disturbance over the western part of the English Channel, and also in another system over the north-east of Spain. High pressure area extending northwards later, and also westwards to the United Kingdom. Spanish depression becoming deeper, that over the Channel dispersing.

Wednesday, 6th January, 1904.

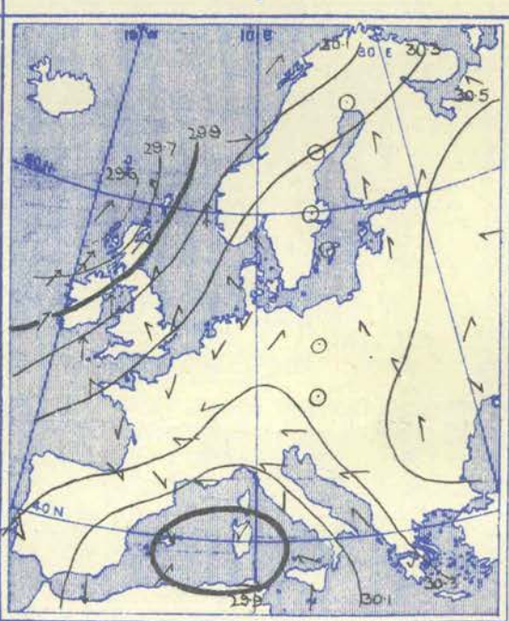
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather varying greatly in different localities. Mostly dry and dull over the eastern half of our area; unsettled and rainy over Italy and on all the shores of the western part of the Mediterranean; fine at most French and German stations, and cloudy or dull over the United Kingdom, with fog or mist in places. Slight rain later in day at many of our own stations, and heavy falls in Ireland, as much as 1·1 ins. at Blacksod Point. Heavy falls also occurring in Algeria and the adjacent parts of Europe—1·3 ins. at Oran.

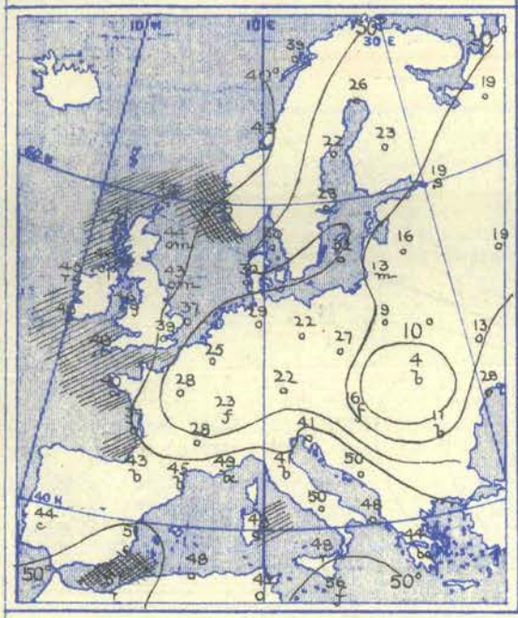
Temperature changed very irregularly. Readings at 8 a.m. highest, 57° at Sfax, 54° at Nemours, 51° at Lisbon, and 48° on our south-west coasts. Lowest, (1) −2° at Hermanstadt, +5° at Cracow and Warsaw, 10° at Neu-Fahrwasser and Memel; (2) 23° at Archangel and Kuopio; (3) 32° over central England; (4) 39° at Madrid. Maxima during day, 53° at Valencia Island, and a few degrees higher in the extreme south. Severe frost continuing all day over central and north-eastern Europe.

Wind at 8 a.m. showing a complete cyclonic circulation of fresh or strong breezes around the western portion of the Mediterranean. Light or moderate anticyclonic airs prevailing in most other regions, but strong Southerly winds reported in Ireland and the west of Scotland. Latter current increasing to a moderate to fresh gale by evening and veering somewhat towards south-west. Southerly gale setting in on the south-west coast of Norway.

Barometer at 8 a.m. ranging from above 30·5 ins. in an extensive anticyclone over Russia, and above 30·3 ins. in a smaller system over the centre and south-east of England to 29·8 ins and less (1) in a depression having its centre to the south-eastward of Sardinia, and (2) in a second system off our own north-west coasts. No change in the general distribution of pressure later, but gradients increasing over our Islands.

Thursday, 7th January, 1904.

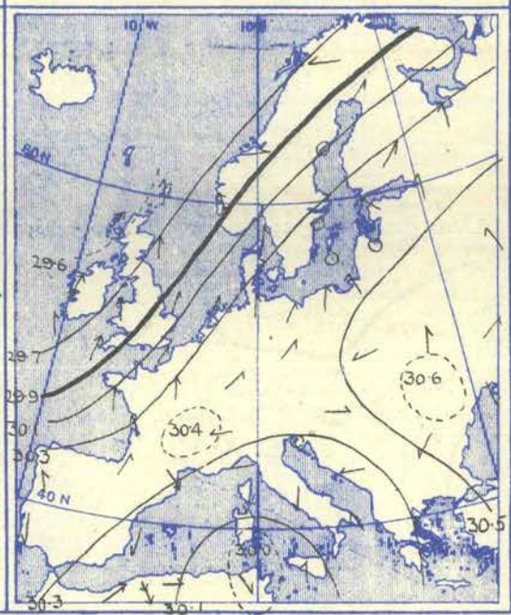
Temperature and Weather. 8 a.m.



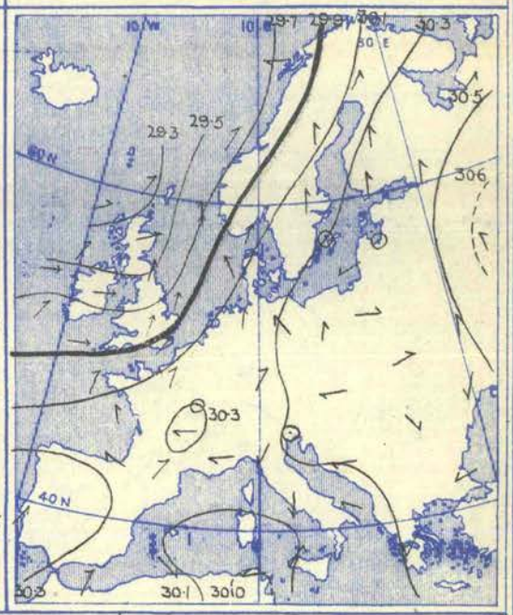
Weather at 8 a.m. cloudy or overcast in almost all places, with snow at St. Petersburg and Nicolaieff, rain in the south-west of Norway, the west of Algeria, and in many parts of the United Kingdom. Fine and bright in the south of France and the north of Italy. Heavy rain falling later in the west of France and at our own western stations, and also in Algeria, and smaller amounts over our Islands generally as well as in the Netherlands and Denmark.

Temperature risen in most regions. Morning readings ranging from 57° at Nemours, 56° at Malta, 50° at Lésina, and 49° at Scilly and Roche's Point, to below 30° in the central and north-eastern countries, to below 20° in many parts of Russia and Austria, and to below 10° in places. Lowest values, 6° at Cracow and 4° at Lemberg. Severe frost continuing all day in all the eastern and central regions of the Continent, but thermometer rising to 51° at Bath, 52° at Scilly, to a few degrees higher at stations in the extreme south, and to 61° at Nemours.

Barometer and Wind. 8 a.m.



6 p.m.

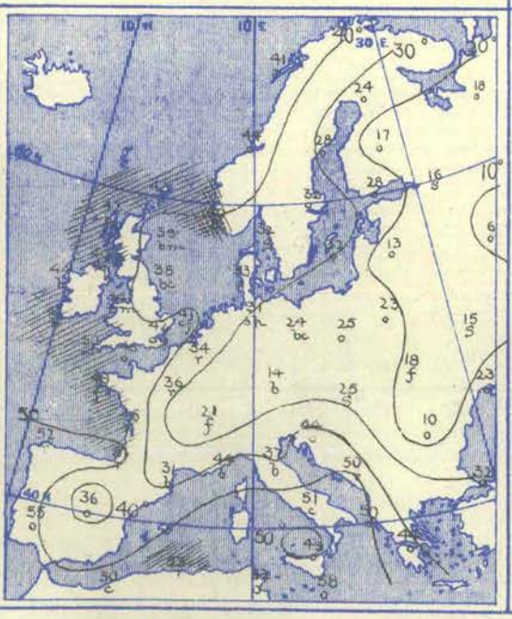


Wind fresh to a moderate gale from the Southward over Great Britain and Ireland. A complete cyclonic circulation prevailing over the Mediterranean; of little force generally, but North-Westerly wind blowing a fresh gale at Oran. Light and anticyclonic over Europe as a whole. Wind veering somewhat over our Islands by evening, but continuing strong; increasing to a moderate to strong gale from the Southward on the eastern shores of the North Sea. Gale at Oran subsiding.

Barometer at 8 a.m. ranging from 30·5 ins. to 30·6 ins. in a large anticyclone still shown over Russia, to below 30·0 ins. in a depression over Tunis and its neighbourhood, and to less than 29·6 ins. in a large disturbance off our north-west coasts. Latter system travelling north-eastwards during day, and a secondary disturbance moving across the southern counties of England. Gradients increasing considerably over the North Sea and on our south-east and east coasts, but decreasing in Scotland.

Friday, 8th January, 1904.

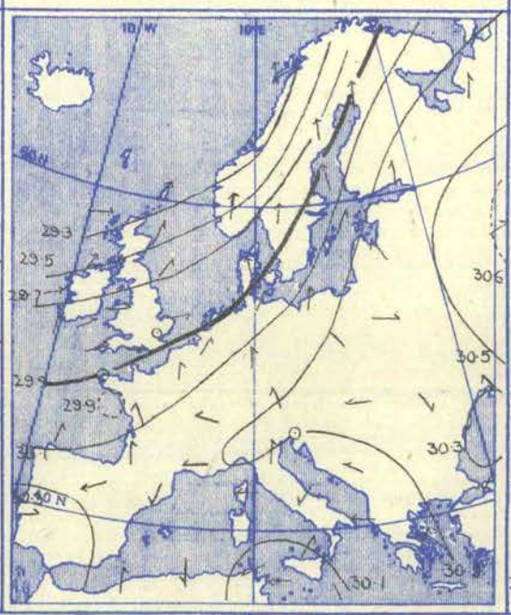
Temperature and Weather. 8 a.m.



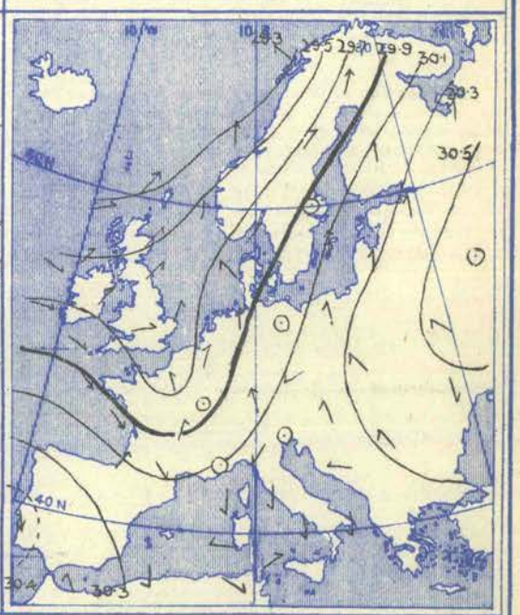
Weather at 8 a.m. fine in a few isolated parts of the Continent and also at several of our own stations. Cloudy or dull generally, with rain on the west coasts of France and the Peninsula, at Paris, Brussels, Lésina, and Algiers, fog in many parts of central Europe, the Netherlands, and at Yarmouth, and snow at Haparanda, St. Petersburg, Kiev, and Buda-Pesth. Rain later in all except the central and eastern countries. Heaviest amounts, 1·1 ins. at Tunis and 1·0 in. at Cape Gris Nez.

Temperature fallen in a few districts, but risen as a whole. Morning readings ranging from 58° at Malta and 55° at Oran and Lisbon, to below 30° over the major portion of Europe, and to below 20° over Russia and its vicinity. Lowest values, 10° at Hermanstadt, 9° at Kharkov, and 6° at Moscow. Rising during day to 61° at Malta and Oran, and to above 50° in the south generally. Continuing below 32° all day over central and eastern Europe.

Barometer and Wind. 8 a.m.



6 p.m.

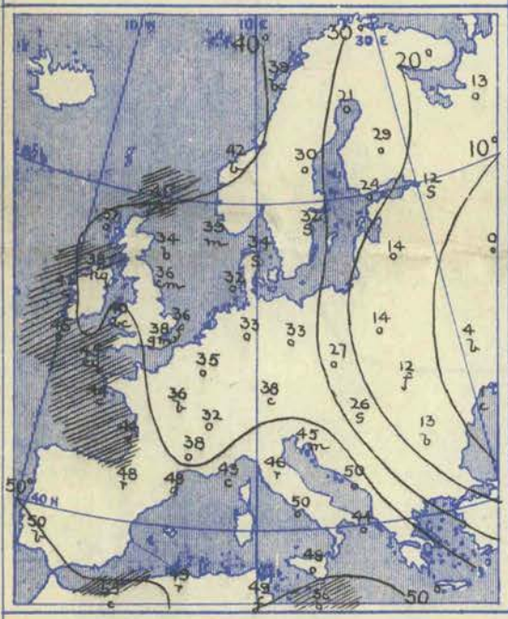


Wind Southerly to South-Westerly over all the north-westerly countries and mostly fresh or strong. Light anticyclonic airs prevailing over the eastern half of Europe, but a separate cyclonic circulation shown around Malta and Tunis. Very little change occurring later.

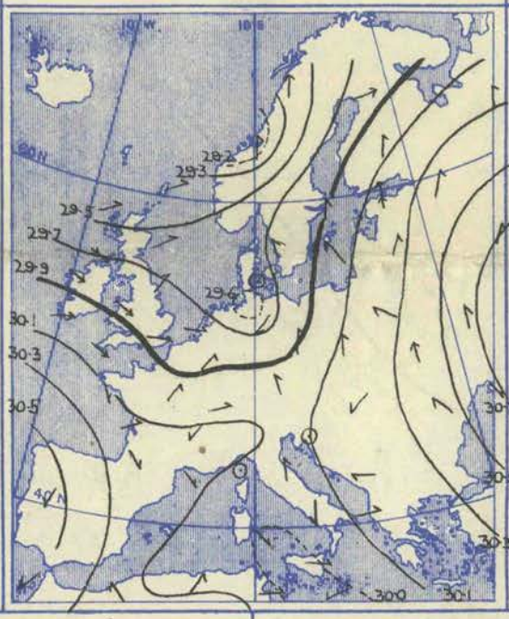
Barometer at 8 a.m. ranging from 30·66 ins. at Moscow and above 30·3 ins. over Spain, to below 30·1 ins. in a depression having its centre to the southward of Malta, to about 29·9 ins. in a small secondary over the Bay of Biscay, and to less than 29·3 ins. in a very large disturbance off the north of Scotland. Scotch depression travelling north-eastwards later, and the small secondary over the Bay taking a similar course to the north-east of France. Both high pressure systems maintaining their positions. Gradients increasing over France and the Bay of Biscay.

Saturday, 9th January, 1904.

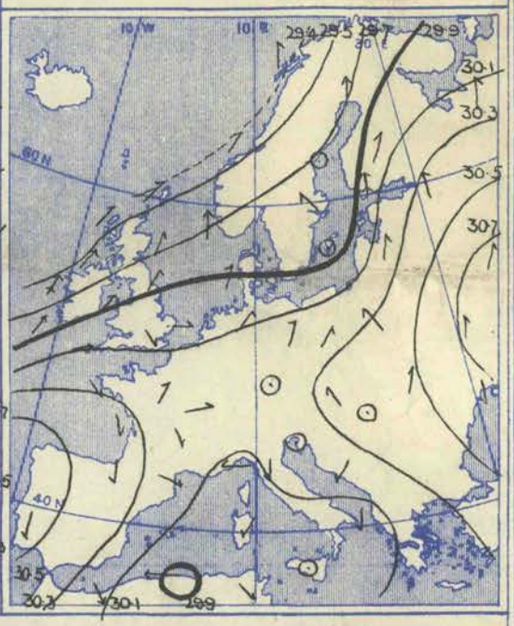
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in Portugal and in various parts of the United Kingdom; cloudy or dull in most other regions. Snow falling at Buda-Pesth, St. Petersburg, and in Denmark and the south of Sweden, rain in the south-west of France, in Algeria, at Florence, and at some of our own southern stations, and fog prevailing over central and eastern England. Heavy rain falling in Algeria during the ensuing twenty-four hours, 1·5 ins. at Algiers, and considerable amounts in the western and north-western regions of Europe—0·6 in. at Holyhead, and 0·9 in. at Blacksod Point.

Temperature changed very irregularly. Readings at 8 a.m. highest, 58° at Oran, 56° at Malta, and 50° at Lisbon, Naples, and Lésina, to below 30° in eastern and north-eastern Europe, and to below 10° in several parts of Russia. Lowest values, −5° at Nicolaieff, zero at Moscow, +4° at Kiev, and 12° at St. Petersburg. Maxima during day above 45° in most parts of Ireland and England, and above 50° in Italy, the south of France, and southern Europe generally. Highest values, 62° at Malta and 63° at Nemours.

Wind at 8 a.m. fresh to strong from the Westward over our Islands, and from the North Westward over the Bay of Biscay and its neighbourhood, drawing into the Southward over Germany, the Baltic, and Scandinavia, and blowing strongly in places. Mainly South-Easterly to Southerly over the eastern part of our area, and variable on the shores of the Mediterranean. Backing to south-west on our western and northern coasts during day and increasing considerably in force.

Barometer at 8 a.m. highest, 30·7 ins. and upwards, in an anticyclone extending to southern and central Russia from the east, and above 30·5 ins. over Spain. Lowest, below 29·2 ins. in a large depression having its centre off the north-west of Norway. As low as 29·6 ins. in a small secondary near Cuxhaven, and below 30·0 ins. in an irregularly shaped area over the Mediterranean. Another depression approaching our western coasts later and gradients becoming steep over all our western districts. Mediterranean disturbance becoming deeper.

IV.—GENERAL NOTES, etc.

Throughout the whole period a large anticyclone was in existence over Russia or its immediate vicinity, while extensive, and sometimes deep, cyclonic systems appeared from the Atlantic and generally moved in a north-easterly direction, while other, and usually smaller, disturbances appeared over the Mediterranean. As a result of this pressure distribution, rain was very frequent in the most western regions, accompanied by a temperature above the normal for the time of year, while in the centre and east of Europe the weather was mostly dry and temperature low. Over Italy, Algeria, and on the shores of the Mediterranean generally, the weather was very unsettled, and some heavy falls of rain were experienced. The general current of wind over the western half of our area was at first South-Easterly or Southerly, but later in the week it became Southerly or South-Westerly to Westerly. Strong winds were frequent over the United Kingdom and its neighbourhood, and gale force was occasionally reported. Towards the end of the period pressure became relatively high in the Azores and an anticyclone appeared to extend thence to the Spanish Peninsula.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from Observations made at 8 a.m. in the British Islands, Belgium, Holland and Spain; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; and at 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands, Belgium and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway, and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 2.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	4·6	− 1·0	11	− 2
STRATHPEFFER SPA	6·4	− 0·4	14	− 1
EDINBURGH	3·5	− 2·9	7	− 6
COCKLE PARK	4·4	—	9	—
NEWCASTLE-ON-TYNE	0·8	—	2	—
YORK	3·5	− 2·7	7	− 5
CROMER	6·8	—	13	—
LOWESTOFT	7·0	—	13	—
DUNMOW	0·9	—	2	—
SHEFFIELD	1·1	—	2	—
WORKSOP	0·2	− 7·2	0	− 14
THURCASTON	2·5	− 5·6	5	− 11
MARGATE	7·2	− 2·8	13	− 5
BROADSTAIRS	8·4	—	15	—
RAMSGATE	9·3	—	17	—
EASTBOURNE	4·7	− 7·5	8	− 13
BRIGHTON	3·0	− 8·2	5	− 15
WORTHING	3·1	—	6	—
BOGNOR	5·2†	—	9†	—
WESTBOURNE	4·3†	− 7·4	8†	− 13
VENTNOR HOSPITAL	3·6	− 7·1	6	− 13
BOURNEMOUTH	4·9	—	9	—
MARLBOROUGH	2·8	− 6·0	5	− 11
SOUTHPORT	5·3	—	10	—
RHYL	8·8	—	17	—
ABERDOVEY	13·6†	—	26†	—
TENBY	9·6	− 2·2	18	− 4
TORQUAY	9·8	− 2·7	18	− 5
NEWQUAY	4·9	− 6·6	9	− 12
GUERNSEY	13·5†	+ 2·4	24†	+ 4

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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TWENTY-SEVENTH YEAR. *Vol. XXI. (New Series.)* } No. 2. SECOND WEEK, ENDING SATURDAY, JANUARY 16TH, 1904. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 8.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	46	23	40·4	32·9	36·8	1 below	0	− 6	36	0	4	− 8	66	− 5
	1. SCOTLAND, EAST	48	26	40·0	32·2	36·3	1 below	0	− 7	40	− 3	2	− 12	74	− 11
	2. ENGLAND, N.E.	56	30	44·5	34·8	39·9	2 above	7	0	29	− 9	9	− 6	62	− 13
	3. ENGLAND, EAST	56	30	45·2	36·1	40·8	3 above	9	+ 2	24	−18	11	− 4	54	− 29
	4. MIDLAND COUNTIES	57	29	45·8	34·8	40·5	3 above	11	+ 2	29	−15	16*	− 2	65	− 21
	5. ENGLAND, SOUTH	55	31	46·2	37·1	41·9	3 above	12	+ 1	22	−12	19	− 4	47	− 19
Principal Grazing Districts.	6. SCOTLAND, WEST	49	30	43·4	35·4	39·6	1 above	4	− 6	25	− 6	10	− 11	48	− 12
	7. ENGLAND, N.W.	54	29	44·5	36·9	40·9	2 above	7	− 2	21	−10	13	− 6	50	− 10
	8. ENGLAND, S.W.	55	31	47·8	38·5	43·4	2 above	25	+10	10	−14	48	+ 17	22	− 24
	9. IRELAND, NORTH	50	29	43·6	35·0	39·4	1 below	4	− 9	26	− 1	11	− 16	51	− 2
	10. IRELAND, SOUTH	53	28	46·6	37·2	42·1	0 (average)	21	+ 1	13	− 8	45	+ 4	25	− 16
	— CHANNEL ISLANDS	53	35	49·8	41·0	45·6	1 above	29	+ 6	3	− 8	51	+ 3	3	− 18

Rainfall.

	DISTRICTS. (See p. 8.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	18	6 more	11	+ 1	3·5	+ 0·9
	1. SCOTLAND, EAST	5	7	1 more	9	+ 1	1·4	+ 0·1
	2. ENGLAND, N.E.	4	5	1 more	8	+ 1	0·8	− 0·1
	3. ENGLAND, EAST	4	5	1 more	8	0	0·9	0·0
	4. MIDLAND COUNTIES	6	8	3 more	12	+ 5	1·4	+ 0·4
	5. ENGLAND, SOUTH	6	10	4 more	11	+ 4	1·7	+ 0·5
Principal Grazing Districts.	6. SCOTLAND, WEST	6	14	2 more	11	+ 2	3·2	+ 0·8
	7. ENGLAND, N.W.	6	12	5 more	11	+ 3	2·2	+ 0·8
	8. ENGLAND, S.W.	6	14	6 more	12	+ 3	2·6	+ 0·8
	9. IRELAND, NORTH	7	15	8 more	12	+ 2	2·7	+ 1·1
	10. IRELAND, SOUTH	6	11	2 more	12	+ 3	2·8	+ 0·8
	— CHANNEL ISLANDS	7	16	8 more	14	+ 5	3·2	+ 1·6

Bright Sunshine.

	DISTRICTS. (See p. 8.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	− 3	6	− 6	8	− 3	9	− 3
	1. SCOTLAND, EAST	10	+ 1	19	+ 1	15	− 3	15	− 3
	2. ENGLAND, N.E.	8	− 2	16	− 3	12	− 6	11	− 5
	3. ENGLAND, EAST	11	+ 1	20	+ 2	16	− 5	15	− 5
	4. MIDLAND COUNTIES	11	+ 1	20	+ 2	14	− 4	13	− 4
	5. ENGLAND, SOUTH	12	+ 2	21	+ 3	16	− 4	14	− 4
Principal Grazing Districts.	6. SCOTLAND, WEST	7	0	14	0	12	− 3	12	− 3
	7. ENGLAND, N.W.	6	− 1	12	− 1	12	− 3	11	− 2
	8. ENGLAND, S.W.	11	0	20	0	18	− 4	16	− 3
	9. IRELAND, NORTH	7	− 3	13	− 5	11	− 8	10	− 8
	10. IRELAND, SOUTH	15	+ 3	27	+ 5	24	0	22	0
	— CHANNEL ISLANDS	12	− 2	20	− 3	22	− 4	19	− 4

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather was again of a very unsettled character throughout our Islands. Considerable falls of rain were experienced in the west and north, and lesser falls in the south-east and east. Showers of hail and snow were not infrequent in Scotland, Ireland, and Wales. Thunder and lightning occurred in several parts of England and Ireland on Wednesday or Thursday.

Temperature was again above the mean over England and in the west of Scotland, but only just equalled the normal in Ireland S., and was slightly below it in Scotland N. and E. and Ireland N. The highest of the maxima were registered either on the 12th or 13th. In the Midland Counties the thermometer rose to 57°, in England N.E. and E. to 56°, and in England S. and S.W. to 55°. In Ireland N. the highest reading was 50° and in Scotland N. 46°. The lowest of the minima, which were recorded at the end of the period, ranged from 23° in Scotland N. and 26° in Scotland E., to 31° in England S. and S.W., and to 35° in the Channel Islands.

Rainfall exceeded the mean in all districts. In the east and north-east of Great Britain and in Scotland W. and Ireland S. the excess was slight, but in the other districts it was rather large.

Bright Sunshine varied a good deal in different localities, some places showing an excess and others a defect as compared with the normal. The percentage of the possible duration ranged from 27 in Ireland S. and 21 in England S., to 12 in England N.W. and to 6 in Scotland N.

Barometer and Wind. During the early half of the period the chief depressions in our neighbourhood travelled North-North-Eastwards outside our western and north-western coasts, only a few secondaries passing directly over us. By Wednesday night, however, the centre of a very deep disturbance travelled Eastwards over our extreme northern coasts. This system subsequently moved East-South-Eastwards and caused the wind, which had previously been fresh or strong to a gale from the Southward or South-Westward, to veer to the Westward and finally to West-North-West. Both the Westerly and West-North-Westerly currents were very strong during Thursday and Friday, a strong gale being reported in many places, while in some localities the force of a whole gale was attained.

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II.—DATA from which the SUMMARY on page 7 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	43	33	41·3	35·3	38·4	− 0·7	0	25	7	1·93	+ 1·05	*	*	*	*
	Stornoway	46	30	41·6	33·7	37·8	− 1·0	0	29	7	1·40	+ 0·29	2·8	− 3·7	6	− 8
	Wick	44	28	39·7	32·4	36·2	− 1·5	0	41	7	1·00	+ 0·48	*	*	*	*
	Lairg 𝔖	40	26	37·3	30·7	34·1	− 0·8	0	55	3	1·15	+ 0·35	*	*	*	*
	Glencarron 𝔖	43	28	39·8	32·0	36·1	− 1·1	0	41	7	3·69	+ 1·43	*	*	*	*
	Fort Augustus 𝔖	44	23	40·1	31·2	35·8	− 2·4	0	43	7	1·94	+ 0·84	0·9	− 2·5	2	− 5
	Fort William	46	32	43·3	35·3	39·5	+ 0·8	4	26	7	1·80	− 0·33	2·1	− 3·1	4	− 6
1. SCOTLAND, E.	Nairn	43	29	39·3	32·1	35·8	− 1·6	0	43	6	0·82	+ 0·37	*	*	*	*
	Aberdeen	43	30	39·4	33·6	36·6	− 0·9	0	38	5	0·30	− 0·23	13·7	+ 2·5	28	+ 5
	Braemar 𝔖	40	26	37·2	29·8	33·7	− 0·5	0	58	7	0·61	− 0·06	*	*	*	*
	Ochtertyre 𝔖	45	28	40·7	31·3	36·2	− 0·5	0	41	5	0·91	− 0·14	*	*	*	*
	Leith	48	30	42·6	34·0	38·5	− 0·4	2	30	4	0·97	+ 0·57	*	*	*	*
	Marchmont 𝔖	44	28	40·6	32·6	36·8	+ 0·5	0	36	4	0·75	+ 0·15	11·5	+ 2·4	22	+ 5
2. ENGLAND, N.E.	Alnwick Castle	48	32	42·8	34·2	38·7	+ 0·9	2	29	4	0·67	+ 0·16	*	*	*	*
	Durham	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Shields	50	30	44·1	34·3	39·4	+ 0·8	6	30	3	0·69	+ 0·29	*	*	*	*
	Scarborough 𝔐	52	32	45·6	34·8	40·4	+ 2·0	10	29	6	0·52	+ 0·05	4·3	—	8	—
	Spurn Head	53	33	44·3	34·9	39·8	+ 1·5	6	28	4	0·43	+ 0·11	*	*	*	*
	Lincoln	? 56	32	45·6	36·0	41·0	+ 4·0	10	25	4	0·47	+ 0·09	*	*	*	*
	Fulbeck (Lincolnshire)	—	—	—	—	—	—	—	—	4	0·34	− 0·05	9·3	—	17	—
3. ENGLAND, E.	Hillington 𝔐	53	30	45·6	35·4	40·7	+ 4·0	10	27	4	0·64	+ 0·18	9·2	− 0·8	17	− 2
	Yarmouth	53	33	45·0	35·7	40·5	+ 3·1	8	25	3	0·26	− 0·19	*	*	*	*
	Geldeston	56	33	45·8	36·4	41·3	+ 3·5	11	24	4	0·27	− 0·10	9·4	− 2·2	17	− 4
	Cambridge	47	31	44·6	35·6	40·3	+ 2·9	7	26	4	0·44	+ 0·10	12·9	+ 2·1	23	+ 4
	Felixstowe	52	34	45·4	38·4	42·0	+ 3·8	10	10	4	0·48	—	19·4†	—	35†	—
	Clacton-on-Sea	52	33	43·9	36·1	40·2	+ 1·0	5	23	5	0·44	—	17·8	—	32	—
	Rothamsted	55	32	46·2	34·8	40·7	+ 3·6	12	30	6	0·78	+ 0·23	14·8	+ 4·8	26	+ 9
	Shoeburyness	—	33	—	36·7	—	—	—	—	3	0·46	+ 0·13	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	51	29	42·8	33·8	38·5	+ 1·7	2	31	6	0·76	+ 0·19	15·2	—	28	—
	Bawtry (Hesley Hall)	54	31	46·4	34·0	40·5	+ 3·3	12	33	5	0·36	− 0·05	*	*	*	*
	Nottingham	53	33	48·1	35·3	42·0	+ 4·4	17	19	5	0·65	+ 0·20	10·3	—	19	—
	Colly Weston (Stamford)	57	32	47·3	34·7	41·3	+ 4·6	15	31	5	0·61	+ 0·18	*	*	*	*
	Cheadle 𝔐	51	31	42·4	33·8	38·3	+ 1·8	1	30	6	0·84	+ 0·24	*	*	*	*
	Birmingham (Edgbaston)	52	31	44·2	35·4	40·0	+ 2·2	6	26	7	0·89	+ 0·40	7·4	—	13	—
	Shrewsbury	54	32	47·3	35·4	41·6	+ 3·2	15	29	7	1·00	—	*	*	*	*
	Hereford 𝔐	54	32	46·5	35·9	41·4	+ 3·1	13	26	7	0·65	+ 0·09	*	*	*	*
	Cirencester	52	29	46·2	33·3	40·0	+ 2·5	12	35	5	1·22	+ 0·57	11·8	+ 1·3	21	+ 2
	Oxford	54	33	46·9	35·9	41·6	+ 3·4	14	26	6	0·77	+ 0·31	13·4	+ 3·2	24	+ 6
5. ENGLAND, S.	London	55	33	47·3	37·4	42·6	+ 3·8	24	13	5	0·70	+ 0·23	8·8‡	+ 3·5‡	15‡	+ 6‡
	Swarraton (Alresford) 𝔐	52	32	45·5	36·2	41·0	+ 3·5	10	24	6	1·10	+ 0·40	*	*	*	*
	Tunbridge Wells	51	32	44·7	35·3	40·2	+ 2·6	8	27	6	1·28	—	13·2	—	23	—
	Dungeness	50	31	46·3	37·0	41·8	+ 2·5	12	22	5	0·63	+ 0·21	10·7	—	19	—
	Hastings (St. Leonards)	49	32	45·2	37·2	41·4	+ 1·9	9	20	5	1·02	+ 0·40	14·1	+ 1·1	25	+ 2
	Southampton	53	34	47·8	38·2	43·2	+ 3·4	24	11	6	1·42	+ 0·72	12·9	+ 1·7	23	+ 3
	Portland Bill	51	38	47·4	40·4	44·0	+ 2·6	21	4	6	0·95	—	*	*	*	*
	Shaftesbury 𝔐	51	32	45·6	35·3	40·7	+ 3·4	10	28	6	1·14	+ 0·46	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	49	33	43·8	35·6	39·9	− 0·1	5	25	7	2·37	+ 0·50	*	*	*	*
	Glasgow	45	32	42·4	35·3	39·0	+ 0·6	1	25	6	1·45	+ 0·59	6·1	+ 0·9	12	+ 2
	Cally 𝔖	46	30	43·1	33·8	38·6	+ 0·4	3	31	5	1·20	+ 0·13	*	*	*	*
	Aspatria	48	30	43·1	35·5	39·5	+ 2·3	3	25	5	0·73	—	5·3	—	10	—
	Douglas (Isle of Man)	49	31	44·6	36·7	40·8	+ 0·2	7	21	6	1·10	+ 0·13	10·4	− 0·6	19	− 2
7. ENGLAND, N.W.	Newton Rigg	49	29	42·6	32·9	37·9	+ 2·3	2	33	6	0·91	—	4·8	—	9	—
	Stonyhurst	50	33	42·6	36·7	39·8	+ 2·2	2	20	6	1·67	+ 0·73	8·0	+ 0·5	15	+ 1
	Blackpool 𝔐	49	33	44·9	37·4	41·3	+ 2·9	8	19	6	1·06	+ 0·40	10·4	+ 2·5	19	+ 5
	Manchester (Prestwich)	51	32	42·8	34·9	39·0	+ 1·1	2	26	7	1·63	+ 0·91	1·1	—	2	—
	Liverpool Obsy. (Bidston)	51	33	44·4	36·9	40·8	+ 1·4	7	21	6	0·78	+ 0·26	12·3	—	23	—
	Chester (Hawarden Bridge)	54	33	46·0	37·8	42·1	+ 2·4	18	12	5	0·45	—	*	*	*	*
	Llandudno 𝔐	51	36	46·6	39·2	43·1	+ 1·7	19	8	5	1·05	+ 0·42	4·8	− 5·2	9	− 10
	Holyhead	50	37	45·4	39·1	42·4	+ 0·3	15	8	5	0·87	+ 0·13	*	*	*	*
	Bettws-y-Coed	52	33	45·1	37·1	41·3	+ 0·1	9	21	7	1·95	—	2·5	—	5	—
8. ENGLAND, S.W.	Pembroke	51	37	47·6	41·0	44·4	+ 1·9	21	3	6	1·04	+ 0·19	11·7	− 0·1	21	0
	Clifton	53	34	46·9	38·1	42·7	+ 3·2	21	11	6	1·46	+ 0·70	*	*	*	*
	Bath	55	33	48·6	37·3	43·2	+ 3·4	28	13	6	1·21	+ 0·55	9·8	—	17	—
	Arlington (N. Devon)	50	35	45·9	36·7	41·5	+ 1·5	11	23	7	1·88	+ 0·84	*	*	*	*
	Cullompton 𝔐	54	31	47·9	35·6	42·0	+ 2·3	17	18	6	1·46	+ 0·69	11·3	+ 1·6	20	+ 3
	Falmouth	53	38	48·9	40·3	44·8	+ 1·4	27	5	7	1·57	+ 0·41	14·8	+ 2·0	26	+ 3
	Plymouth	53	37	49·0	40·6	45·0	+ 3·0	27	4	7	1·41	+ 0·54	10·1	− 1·1	17	− 2
9. IRELAND, N.	Malin Head	47	32	43·3	35·0	39·3	− 2·1	4	26	7	2·48	+ 1·91	*	*	*	*
	Edenfel (Omagh)	49	29	41·9	33·4	37·8	+ 0·1	0	29	7	1·88	+ 1·10	*	*	*	*
	Blacksod Point	49	36	45·7	39·0	42·5	− 0·1	16	8	7	1·81	+ 0·88	*	*	*	*
	Markree Castle	50	34	44·8	35·5	40·3	+ 0·9	8	26	7	1·56	+ 0·71	6·9	− 2·5	13	− 5
	Armagh	48	30	42·3	33·6	38·1	− 0·6	1	31	7	0·69	+ 0·07	6·9	− 3·3	13	− 6
	Donaghadee	49	32	43·3	33·3	38·5	− 2·1	4	33	7	0·77	+ 0·14	*	*	*	*
10. IRELAND, S.	Dublin	52	32	46·3	35·5	41·1	− 0·5	12	27	6	0·39	− 0·11	17·5	+ 4·5	32	+ 8
	Birr Castle	51	28	44·9	34·6	40·0	+ 0·4	8	30	6	0·99	+ 0·33	10·7	− 0·7	20	− 1
	Kilkenny	52	28	45·0	34·9	40·2	− 0·6	8	29	7	0·68	− 0·07	*	*	*	*
	Waterford	51	32	45·0	36·4	40·9	− 0·1	8	23	6	0·81	− 0·17	*	*	*	*
	Roche's Point	51	36	47·6	39·0	43·5	0·0	23	8	7	0·74	− 0·42	*	*	*	*
	Valencia	53	37	48·4	40·9	44·8	+ 0·1	24	3	6	1·56	+ 0·18	15·8	+ 3·8	28	+ 7
	Killarney	53	35	47·8	38·8	43·5	+ 0·3	24	9	7	2·47	+ 1·05	*	*	*	*
	Foynes	51	35	47·7	37·1	42·6	+ 1·1	25	14	6	1·40	+ 0·58	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	40	50·4	42·3	46·5	+ 0·6	32	0	7	1·11	+ 0·28	14·9	+ 1·9	26	+ 3
	Jersey	52	35	49·1	39·7	44·6	+ 2·1	28	6	7	1·99	+ 1·27	9·5	− 5·6	16	− 10

Stations Marked 𝔐 are in connection with the Royal Meteorological Society, and those marked 𝔖 with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

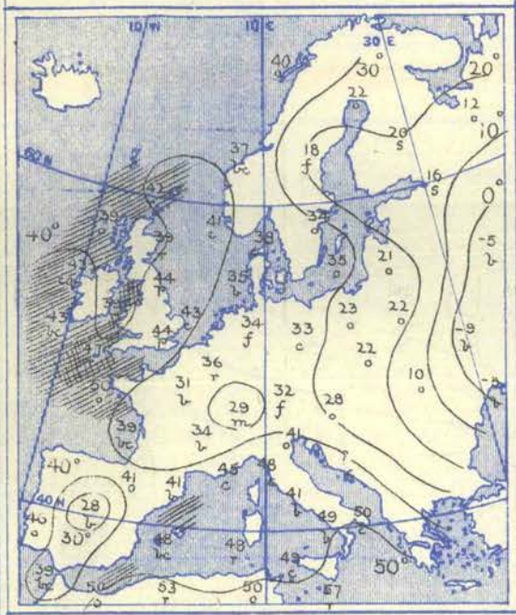
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 30 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

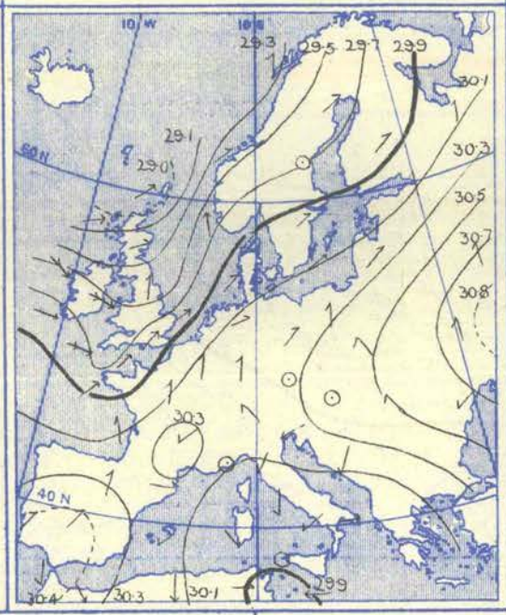
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 10th January, 1904.

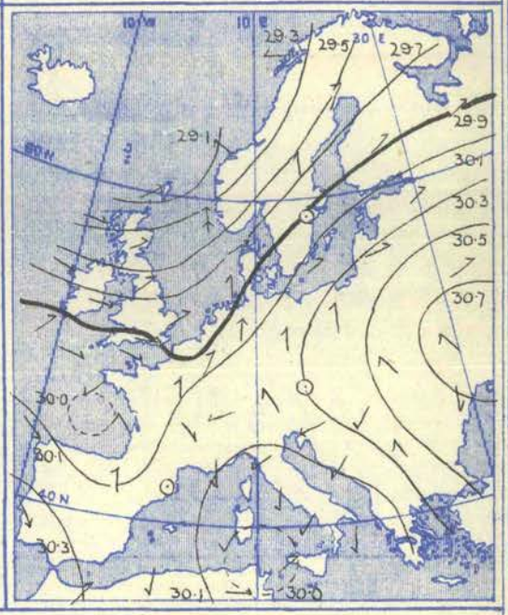
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in several parts of France and Spain, but cloudy or overcast as a whole. Rainy over the United Kingdom, at Oporto, Brussels, and at many stations on the shores of the Mediterranean, and snow falling at Finland, at St. Petersburg and Memel. Fog prevalent in Denmark and in parts of central Europe. Rain falling generally over the western half of our area later—heavily in the extreme south of France and over Algeria.

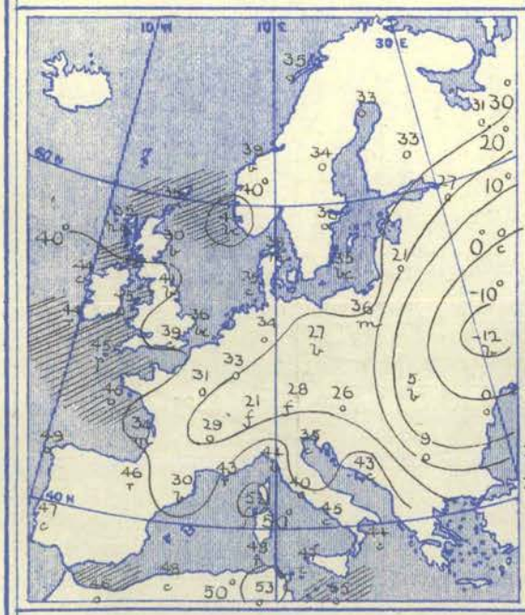
Temperature changed irregularly. Morning readings highest, 57° at Malta and 50° or above in Algeria and at Brindisi. Lowest, (1) −9° at Kiev, −5° at Moscow, +12° at Archangel and Cracow; (2) 36° at Wick and Parsonstown; (3) 31° at Paris; (4) 28° at Madrid. Rising later to 61° at Palermo, to nearly the same value at several other extreme southern stations, and to 49° at Bath. Frost continuing all day in Russia and Austria-Hungary, and thermometer not rising much above 32° in the centre and east of France.

Wind at a.m. varying in direction between north-west and south over our Islands and strong to a gale in force. Strong to a gale from some southerly point over Scandinavia and Finland. A cyclonic circulation of moderate to strong winds prevailing over the Mediterranean. Wind becoming more Westerly later over the United Kingdom, but continuing strong to a gale in many places. Little change elsewhere.

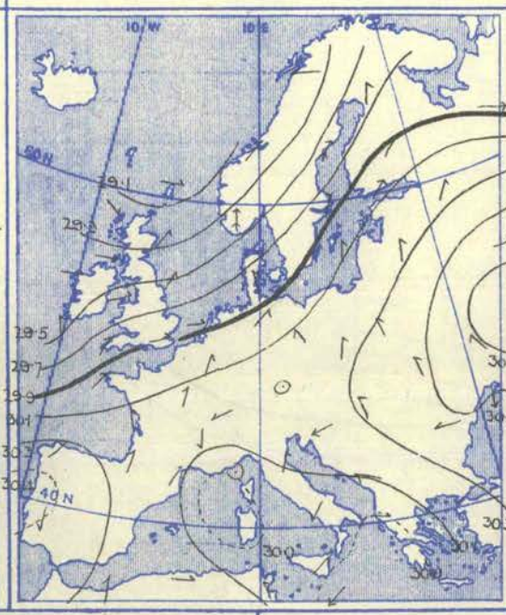
Barometer at 8 a.m. ranging from above 30·7 ins. in an anticyclone over central Russia, and above 30·4 ins. in another system extending from the westward to Spain, to 29·0 ins. and less in a depression having its centre between Tunis and Malta, and to less than 29·0 ins. in a large and deep system off the north of Scotland. A V-shaped secondary lying over our western districts. All cyclonic systems moving north-eastwards later; a shallow area of low pressure forming over the Bay of Biscay.

Monday, 11th January, 1904.

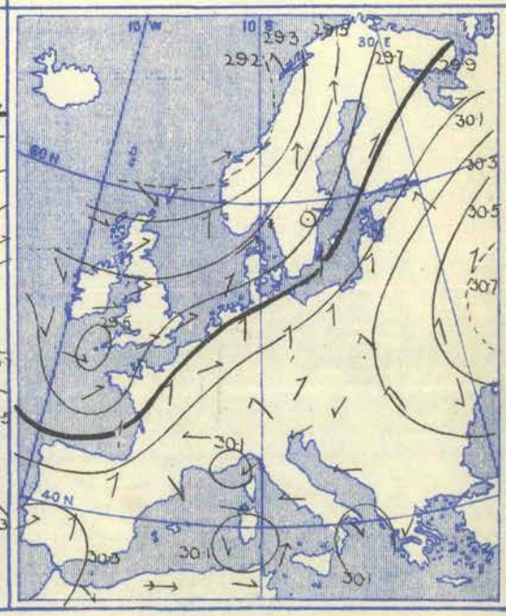
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in a few places, both over our Islands and on the Continent, but cloudy or overcast as a whole, with rain at several of our own stations, and on various shores of the Mediterranean, and snow at Frankfort. Fog prevalent in the south-west of Germany and at Belfort. Rain later except over eastern and central Europe—but not generally heavy.

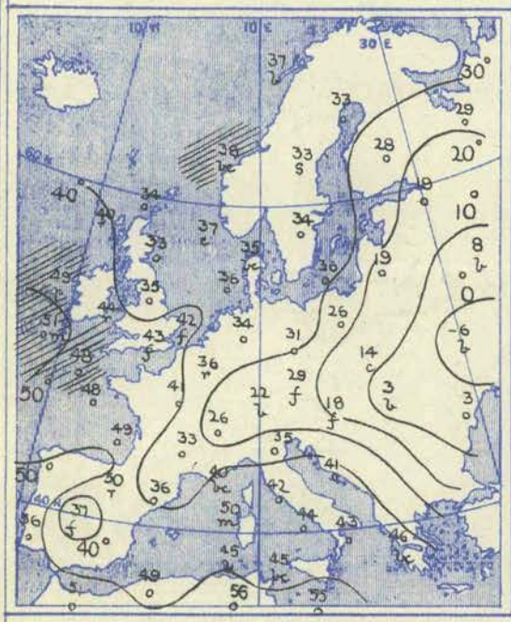
Temperature changes irregular, but upwards over northern Europe. Morning readings highest, 55° at Malta, 53° at La Calle, 49° at Corunna. Lowest, (1) −12° at Kiev, zero at Moscow and Odessa, and 5° at Lemberg; (2) 23° at Limoges, 30° at Perpignan; (3) 33° to 35° in the north-east of Scotland. Rising later to 50° on our most south-western coasts, to a few degrees higher in the extreme south of Europe, and to 59° at Algiers. Severe frost continuing in Austria-Hungary and Russia.

Wind at 8 a.m. light and anticyclonic over Russia and its neighbourhood, strong to a gale from the Southward over Scandinavia, moderate from South in the south of Ireland, and moderate to strong from South-West over our Islands generally. Moderate to strong and irregularly cyclonic over Italy and the adjacent parts of the Mediterranean. Not much change as a whole later, but a complete cyclonic circulation setting in around the Bristol Channel.

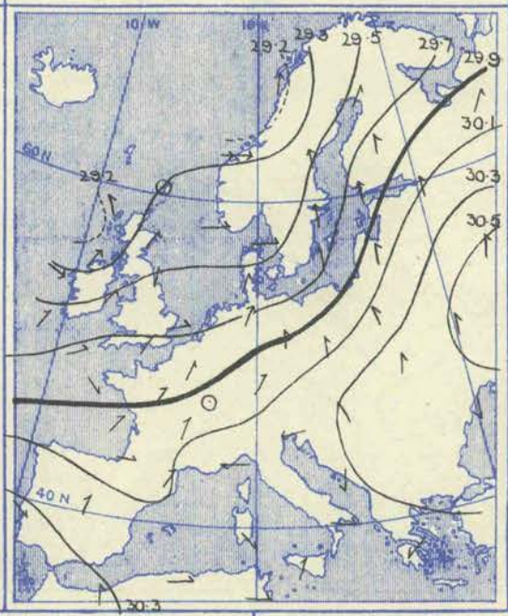
Barometer at 8 a.m. ranging from 30·7 ins. in an anticyclone centred over the south of Russia, and 30·4 ins. in Portugal, to 30·0 ins. and less in a depression over the western part of the Mediterranean, to about 29·0 ins. in a disturbance to the northward of the Shetlands. A small, well-defined depression appearing over the Bristol Channel by 6 p.m.—subsequently moving eastwards and dispersing.

Tuesday, 12th January, 1904.

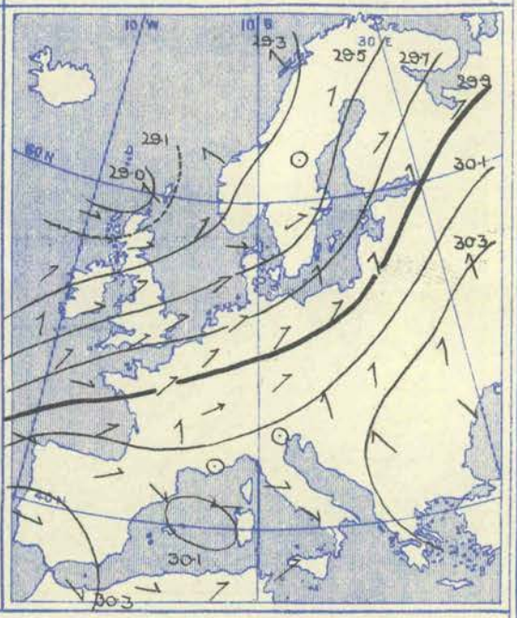
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull in nearly all places, with fog in the south-east of England and in some parts of central Europe, as well as at Madrid. Snow falling at Karlstad, and rain on our north-west coasts, at Brussels, Oporto, and at several French stations. Rain falling very generally later, but weather continuing dry over Austria-Hungary and the major portion of Russia.

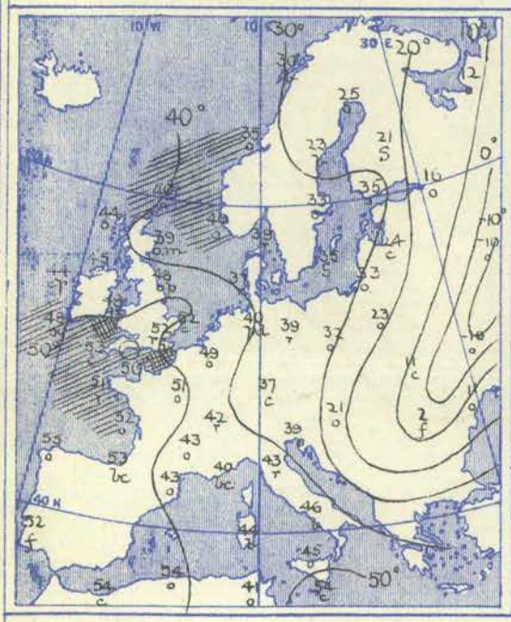
Temperature fallen over Austria-Hungary, Poland, and Finland, risen in most other regions. Morning readings highest, 56° at Lisbon and La Calle, 55° at Malta, 51° at Valencia (Ireland). Lowest, -6° in Little Russia, 3° at Lemberg, 8° at Moscow, 14° at Warsaw, 22° at Munich, 26° at Belfort, 33° at Aberdeen, and 37° at Madrid. Rising to 50° or above in many parts of our Islands during the ensuing twenty-four hours, and also in France and Italy. Highest values, 59° at Algiers and 60° at Palermo.

Wind light and anticyclonic both over the Iberian Peninsula and Russia, cyclonic elsewhere South-Westerly to Southerly over our Islands, and strong to a gale in the west; South Westerly to Southerly over the western countries of the Continent; moderate to fresh as a whole, but strong in Sweden. A fresh Westerly gale prevailing at Christiansund. A general decrease in the force of the wind taking place by evening, but not, as a rule, any material change in direction.

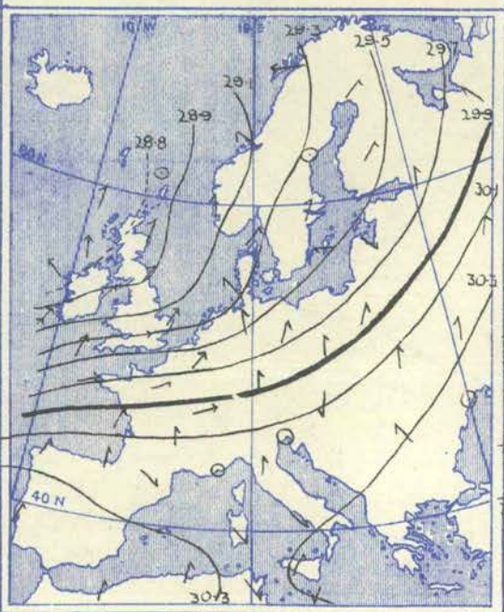
Barometer at 8 a.m. ranging from 30·5 ins. and above over the southern half of Russia and above 30·3 ins. over the south-west of Spain, to less than 29·2 ins. (1) in a depression off the west of Norway, and (2) in another system off the west of Scotland. Russian high pressure area decreasing in intensity later; Scotch depression travelling north-eastwards. A shallow depression appearing over the western part of the Mediterranean.

Wednesday, 13th January, 1904.

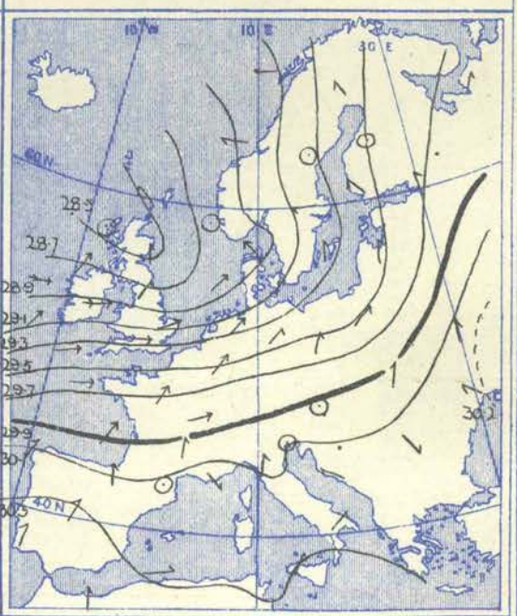
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast nearly everywhere. Rain falling in many parts of western and north-western Europe, as well as at Florence, and snow at Wisby and Kuopio. Rain or snow falling very generally during day—most in the north-western regions. Thunder and lightning experienced at some of our own southern stations, and lightning singly in many parts of our Islands.

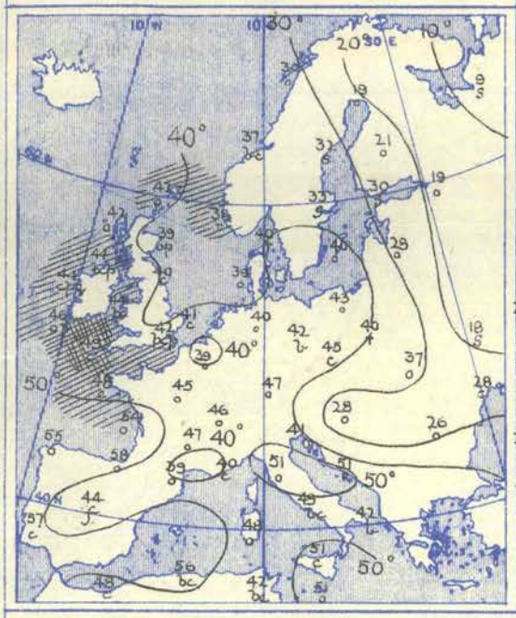
Temperature risen in nearly all parts of our Islands and central and southern Europe, fallen in the far north. Morning readings ranging from 55° at Coranna, 54° at Malta and on the Algerian coast, and 50° or a little above in many parts of England, to below 32° over the major part of Sweden, to below 20° over Russia and Poland generally, and to -10° at Kiev. Rising to 55° at Bath and in London lately, to nearly 60° in the south of France, to 61° at Palermo, 64° at Algiers, and to 65° at Oran. Frost continuing over Russia and Austria.

Wind Westerly and South-Westerly over all the western regions, drawing into South over Russia and the north generally, and to East in the north of Norway. Strong over France, the Netherlands, Ireland, and England; with a moderate to fresh gale in places. Moderate in most other regions. Force of wind increasing later over the southern part of our Islands, and also over France and Germany.

Barometer in morning highest, above 30·3 ins. both over the south-eastern and south-western parts of our area. Lowest, 28·8 ins. and less in a large depression having its centre off our north-west coasts. Latter system moving eastwards later, and barometrical gradients increasing very considerably both over the United Kingdom and the major portion of the Continent.

Thursday, 14th January, 1904.

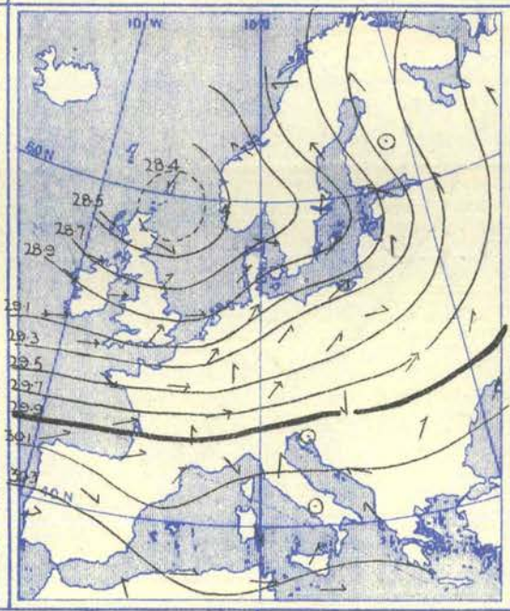
Temperature and Weather. 8 a.m.



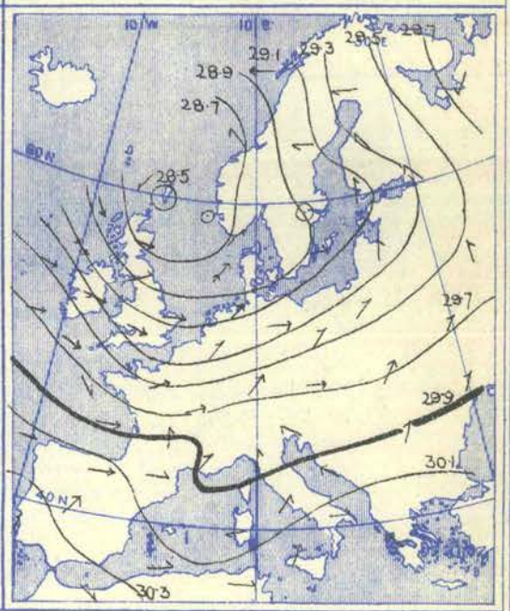
Weather at 8 a.m. fine in a few scattered localities, but cloudy or dull generally. Rainy over the United Kingdom, the south of Norway, Denmark, and at Memel and Oporto, and snow falling at Archangel, Kiev, and on the shores of the Gulf of Bothnia. Rain later in most southern and western regions, and snow or rain over northern Europe. Amounts not heavy generally, but 0·4 in. at Trieste and 0·79 in. at Helsingfors.

Temperature risen quickly over the eastern and central parts of the Continent, fallen in the north-west. Morning readings highest, above 50° at some stations in the extreme south and in the south-west of France. Lowest, 8° at Kharkov, 9° at Archangel, 19° at St. Petersburg and Haparanda, 28° at Buda Pesth. Lowest in our Islands, 38° at Spurn Head. Rising subsequently to 53° at Scilly, and to a few degrees higher at most southern stations. Highest readings, 60° at Malta and Palermo, and 63° at Oran and Algiers.

Barometer and Wind. 8 a.m.



6 p.m.

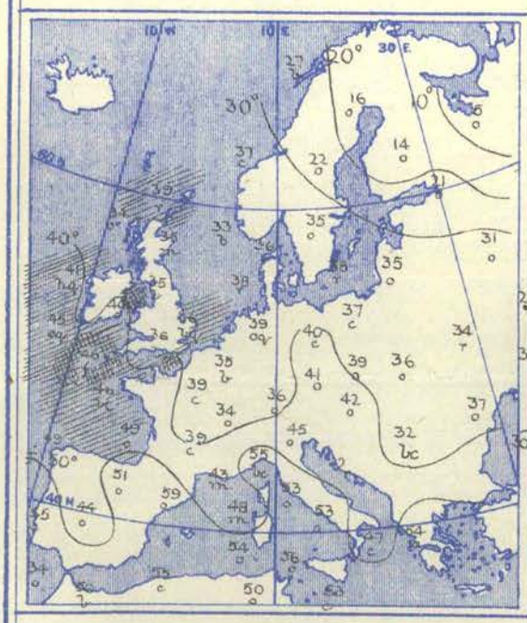


Wind at 8 a.m. showing a very extensive cyclonic circulation around the Shetlands. Westerly current strong to a gale over Ireland, England, the Bay of Biscay, France, and the Netherlands, and the South-Easterly and Easterly winds strong over northern Europe. Wind veering over our Islands and gales increasing in force during day, and continuing to blow strongly elsewhere.

Barometer in morning ranging from above 30·3 ins. over Algeria, Morocco, and the south of Spain, 30·16 ins. at Kharkov, and 29·73 ins. at Archangel, to 28·3 ins. in the centre of a very deep disturbance in the neighbourhood of the Shetlands. Depression moving slowly eastwards during day, and barometer rising very quickly on our western coasts. Gradients increasing throughout the United Kingdom and its neighbourhood.

Friday, 15th January, 1904

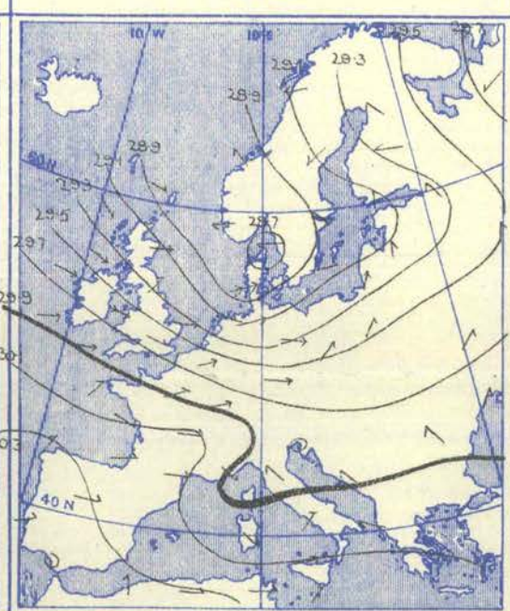
Temperature and Weather. 8 a.m.



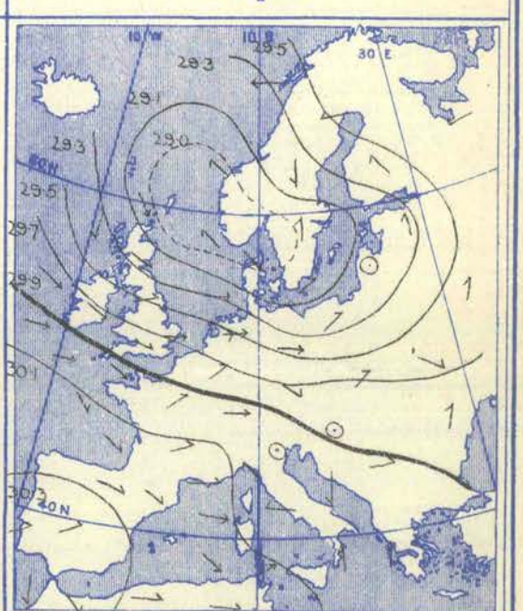
Weather at 8 a.m. fine and bright in most parts of our Islands and in many southern districts of the Continent, but snow or hail at a few of our north-western stations. Cloudy or overcast over the northern half of the Continent, with rain in Denmark and Gothland, at Memel, Hangö, and Kiev. Snow or hail showers falling very generally later in the west and north-west of our Islands, rain or snow over northern Europe, and heavy rain in the north and west of France—as much as 2·1 ins. at Cherbourg.

Temperature fallen generally, but risen in the south of Russia, Italy, and the south of Hungary. Readings at 8 a.m. ranging from 56° at Palermo, 55° at Lisbon and Leghorn, 54° at Patras, and 53° at Rome and Naples, to below 40° generally, and to below 20° over the north-eastern portion of our area. Lowest value, 5° at Archangel. Rising later to above 40° at our western and southern stations, and to above 50° over southern Europe and in Algeria. Highest readings, 68° at San Fernando and 66° at Oran.

Barometer and Wind. 8 a.m.



6 p.m.

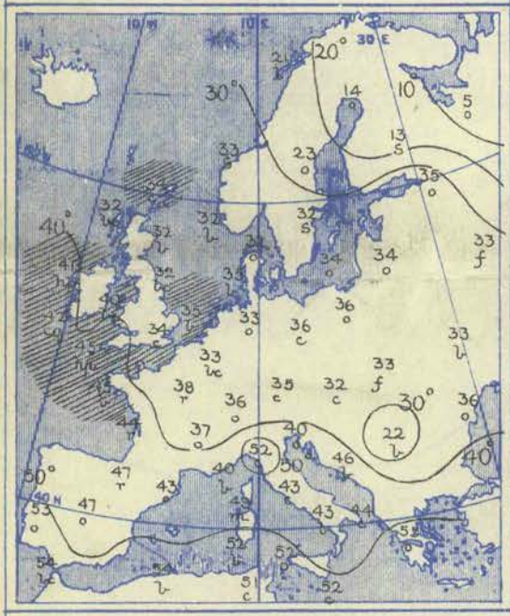


Wind in morning circulating cyclonically, and with considerable strength, around the north of Denmark and its vicinity. North-Westerly and Westerly current strong to a gale over our Islands, and South-Westerly current equally strong over Germany. No general change later.

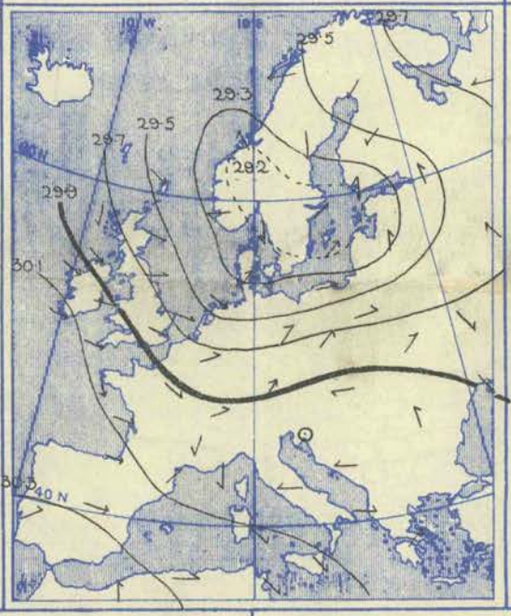
Barometer at 8 a.m. ranging from above 30·3 ins. over Portugal, the greater part of Spain and Algeria, and 29·9 ins. in the south-east of Russia, to less than 29·0 ins. in a small depression over the Gulf of Genoa, and to 28·7 ins. and less in the chief centre of a large disturbance lying over the north of Denmark and the south-west of Norway. Latter disturbance filling up slowly during day, and that over the Gulf of Genoa almost entirely dispersing. A small shallow system appearing near Brindisi.

Saturday, 16th January, 1904.

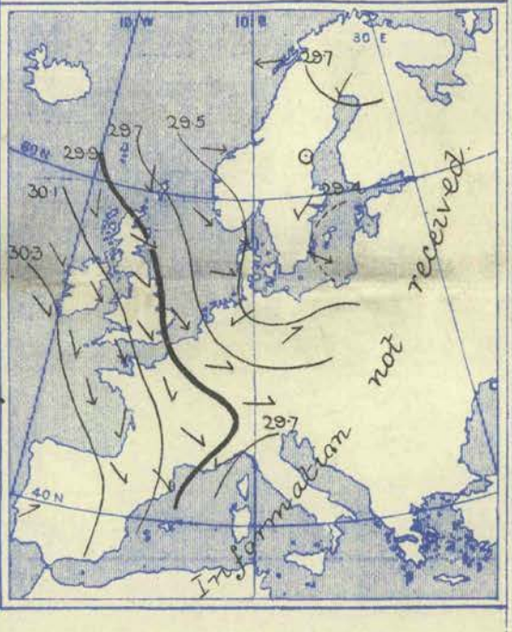
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in most parts of our Islands and Algeria. Cloudy or dull generally, with rain at several French stations, and snow or rain in northern Europe. Slight falls of rain, hail, or snow falling later in different parts of our Islands, and larger quantities in various Continental localities—0·43 in. at Copenhagen and 0·7 in. at Besançon; 1·7 in. at Tunis.

Temperature fallen except in Russia. Morning readings ranging from 55° at Patras, 54° at Algiers and San Fernando, and 53° on the coast of Portugal to below 40° generally and to below 20° in the northeast of our area. Lowest readings, 13° at Kuopio and 5° at Archangel. Rising subsequently to nearly 50° at some of our own western stations, to above 50° in the south of Europe, and to above 60° in places. Highest readings, 63° at Patras and 66° at Oran.

Wind at 8 a.m. showing a cyclonic circulation around the southern half of Scandinavia. The North-Westerly and Westerly winds strong to a gale over these Islands, and the Easterly current strong at Bodö, but not much force prevailing elsewhere. Decreasing in force over our Islands later, but not much change otherwise.

Barometer at 8 a.m. ranging from above 30·3 ins. in the south of Spain and its vicinity to below 29·2 ins. in a complex depression extending from the west of Norway to the Gulf of Finland. Barometer rising over our Islands, France, and Scandinavia later in day and gradients becoming less steep. No information received from the eastern half of Europe.

IV.—GENERAL NOTES, etc.

During the earlier half of the week the highest pressures were found in an anticyclone lying over the centre and south of Russia, while readings were not a great deal lower over the southern portion of the Iberian Peninsula. Some large and deep depressions skirted the western and north-western coasts of the United Kingdom, and other low pressure systems were observed over Italy or the Mediterranean. The wind circulation around these latter disturbances was of little strength, but the South-Westerly and Southerly current which prevailed over the United Kingdom and its neighbourhood was frequently fresh or strong and occasionally rose to the force of a gale. By Wednesday evening the Russian high pressure had disappeared, and a large and very deep depression which had arrived off our north-west coasts by the morning had travelled eastwards across our most northern coasts. This disturbance finally dispersed over the south of Scandinavia and was followed over our Islands at first by some very small secondaries and afterwards by a high pressure ridge. The gales accompanying the passage of this depression were very severe both over our Islands and also over all the western countries of the continent. Rain fell very frequently over those regions most affected by the various depressions, the falls being sometimes heavy on our own western coasts as well as at various French and Italian stations. Severe frost was experienced over the east, centre and north of the continent almost without interruption, but in the most western localities the temperature was higher and more variable.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a ligh to moderate breeze; and ⊙ = a calm. In the left hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from Observations made at 8 a.m. in the British Islands, Belgium, Holland and Spain; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; and at 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands, Belgium and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway, and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 8.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	4·2	− 1·7	9	− 4
STRATHPEFFER SPA	4·7	− 2·3	10	− 5
EDINBURGH	3·7	− 3·2	7	− 6
COCKLE PARK	13·2	—	25	—
NEWCASTLE-ON-TYNE	6·5	—	12	—
YORK	6·6	+ 0·2	12	0
CROMER	9·1	—	17	—
LOWESTOFT	6·6	—	12	—
DUNMOW	9·9	—	18	—
SHEFFIELD	10·1	—	19	—
WORKSOP	8·7	+ 0·9	16	+ 2
THURCASTON	8·5	0·0	16	0
MARGATE	11·1	+ 0·9	29	+ 2
BROADSTAIRS	13·6	—	24	—
RAMSGATE	—	—	—	—
EASTBOURNE	13·4	+ 1·4	24	+ 2
BRIGHTON	12·7	+ 1·4	22	+ 2
WORTHING	13·8	—	24	—
BOGNOR	18·4†	—	32†	—
WESTBOURNE	15·2†	+ 3·2	27†	+ 6
VENTNOR HOSPITAL	11·8	+ 0·8	20	+ 1
BOURNEMOUTH	13·5	—	24	—
MARLBOROUGH	11·7	+ 2·6	21	+ 5
SOUTHPORT	9·3	—	17	—
RHYL	10·8	—	20	—
ABERDOVEY	6·4†	—	12†	—
TENBY	11·4	− 1·4	20	− 3
TORQUAY	13·2	+ 0·3	23	+ 1
NEWQUAY	9·5	− 2·3	16	− 4
GUERNSEY	10·6†	− 0·9	18†	− 2

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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TWENTY-SEVENTH YEAR. *Vol. XXI. (New Series.)* No. 3. THIRD WEEK, ENDING SATURDAY JANUARY 23RD, 1904. *Price 6d. Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 14.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	27	46·6	37·5	42·2	4 above	20	+14	13	−24	24	+ 6	79	− 29
	1. SCOTLAND, EAST	54	28	47·1	35·9	41·7	5 above	14	+ 7	26	−17	16	− 5	100	− 28
	2. ENGLAND, N.E.	54	27	45·0	34·3	39·9	2 above	8	+ 1	31	− 7	16*	− 6	92*	− 21
	3. ENGLAND, EAST	49	21	40·8	29·6	35·4	3 below	0	− 8	46	+ 4	12*	− 11	101*	− 24
	4. MIDLAND COUNTIES	53	23	44·7	32·4	38·8	1 above	8	− 1	37	− 6	24	− 3	103	− 26
	5. ENGLAND, SOUTH	51	24	42·1	31·5	37·0	2 below	0	−12	38	+ 5	19	− 16	85	− 14
Principal Grazing Districts.	6. SCOTLAND, WEST	52	27	46·6	38·6	42·8	4 above	20	+11	10	−21	30	0	58	− 33
	7. ENGLAND, N.W.	52	25	45·2	37·0	41·3	2 above	9	0	21	−10	22	− 6	71	− 20
	8. ENGLAND, S.W.	52	23	46·1	36·2	41·3	0 (average)	11	− 4	24	0	59	+ 13	46	− 24
	9. IRELAND, NORTH	52	31	47·4	39·5	43·6	3 above	22	+ 9	7	−20	33	− 7	58	− 22
	10. IRELAND, SOUTH	54	29	47·6	39·4	43·7	2 above	23	+ 3	7	−14	68	+ 7	32	− 30
	— CHANNEL ISLANDS	51	31	47·2	39·8	43·6	0 (average)	20	− 3	6	− 5	71	0	9	− 23

Rainfall.

Bright Sunshine.

	DISTRICTS. (See p. 14.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	8	5 less	16	+ 1	4·3	+ 0·5	2	− 5	4	− 9	10	− 8	7	− 5
	1. SCOTLAND, EAST	2	1	5 less	11	− 1	1·5	− 0·4	5	− 5	9	−10	20	− 8	13	− 5
	2. ENGLAND, N.E.	2	1	3 less	10	− 1	0·9	− 0·4	13	+ 1	24	+ 2	26*	− 2	16	− 1
	3. ENGLAND, EAST	5	4	1 less	13	+ 1	1·3	0·0	15	+ 5	25	+ 9	31	0	19	0
	4. MIDLAND COUNTIES	3	1	4 less	15	+ 4	1·5	0·0	11	+ 2	19	+ 3	25	− 3	15	− 2
	5. ENGLAND, SOUTH	4	2	4 less	15	+ 4	1·9	+ 0·1	12	+ 1	20	+ 1	28	− 4	16	− 2
Principal Grazing Districts.	6. SCOTLAND, WEST	5	6	6 less	16	+ 3	3·8	+ 0·2	5	− 6	9	−11	17	− 9	11	− 6
	7. ENGLAND, N.W.	4	2	4 less	15	+ 3	2·4	+ 0·3	8	− 2	14	− 4	20	− 5	12	− 3
	8. ENGLAND, S.W.	2	1	7 less	14	+ 1	2·7	+ 0·1	15	+ 2	25	+ 4	33	− 1	19	− 1
	9. IRELAND, NORTH	5	3	5 less	17	+ 2	3·0	+ 0·7	2	− 8	4	−15	13	− 17	8	−11
	10. IRELAND, SOUTH	4	2	8 less	16	+ 2	3·0	+ 0·1	3	−10	6	−17	27	− 10	16	− 6
	— CHANNEL ISLANDS	4	3	5 less	18	+ 4	3·5	+ 1·2	13	− 2	21	− 3	35	− 6	20	− 3

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV.. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather varied a good deal from day to day and in the different districts, but it was as a whole rather unsettled, with slight rain occasionally, in the north and north-west, and mostly fair in the south and south-west. A good deal of fog or mist was, however, experienced in some parts of England during the last two or three days.

Temperature was above the mean over the Kingdom generally—as much as 4° or 5° in Scotland—but only just equal to the mean in England S.W. and the Channel Islands, and 2° or 3° below it in England S. and E. The highest of the maxima were registered during the early days of the period, and ranged from 54° in Scotland E., England N.E., and Ireland S., and 53° in the Midland Counties, to 49° in England E. The lowest of the minima occurred on rather irregular days. In Ireland and Scotland most of the lowest readings were recorded at the beginning of the week, but the majority of those in England took place towards the end. They ranged from 21° in England E. and 23° in the Midland Counties and England S.W., to 31° in Ireland N. and the Channel Islands.

Rainfall was much less than the mean over the country as a whole, but only slightly below it in the east of England.

Bright Sunshine was very deficient in Ireland and Scotland, and to a slighter extent in England N.W. and the Channel Islands, elsewhere there was some excess. The percentage of the possible duration ranged from 25 in England E. and S.W. and 24 in England N.E., to 14 in England N.W., 9 in Scotland E., and to 4 in Scotland N. and Ireland N.

Barometer and Wind.—At the commencement of the period pressure was highest in an anticyclone lying off our south-west coasts, and lowest in cyclonic systems having their centres far beyond our northern coasts. The wind was consequently Westerly or North-Westerly; it blew freshly in places, but had little force generally. By Tuesday the anticyclone had spread eastwards across the North Sea to the Continent, but a very small cyclonic disturbance had appeared over Norfolk, thus interfering with the regular anticyclonic circulation of the wind. By Thursday pressure had become highest over and to the westward of Ireland, while a small V-shaped disturbance lay over the North Sea, and the wind over our Islands had become North-Westerly. Towards the close of the week the anticyclone moved slowly eastward, a steady fall of the barometer set in over our Islands, and the wind backed to South or South-West on all except our most south-eastern coasts.

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II.—DATA from which the SUMMARY on page 13 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	48	30	46·6	38·4	42·7	+ 3·6	20	10	7	0·67	− 0·18	*	*	*	*
	Stornoway	51	28	48·9	35·4	42·4	+ 3·6	31	18	5	0·50	− 0·57	0·6	− 6·8	1	− 14
	Wick	48	33	45·7	35·9	41·0	+ 3·3	10	25	3	0·22	− 0·26	*	*	*	*
	Lairg Ⓢ	49	28	46·7	34·9	41·0	+ 5·9	13	30	5	0·73	− 0·06	*	*	*	*
	Glencarron Ⓢ	48	34	45·4	39·0	42·3	+ 5·1	15	8	7	2·36	+ 0·19	*	*	*	*
	Fort Augustus Ⓢ	50	27	46·3	37·3	42·0	+ 3·9	12	13	3	0·12	− 0·93	0·6	− 3·6	1	− 7
	Fort William	50	35	46·8	41·5	44·3	+ 5·6	18	1	7	0·71	− 1·36	0·0	− 6·6	0	− 13
1. SCOTLAND, E.	Nairn	53	30	49·6	35·7	42·9	+ 5·5	33	18	5	0·12	− 0·31	*	*	*	*
	Aberdeen	51	30	45·9	34·7	40·5	+ 2·8	11	30	2	0·17	− 0·35	7·6	− 5·0	15	− 10
	Braemar Ⓢ	49	30	45·2	34·1	39·9	+ 5·5	9	32	1	0·05	− 0·62	*	*	*	*
	Ochtertyre Ⓢ	54	31	48·9	36·9	43·1	+ 6·2	29	14	2	0·02	− 1·03	*	*	*	*
	Leith	52	31	48·0	38·4	43·4	+ 4·4	25	10	2	0·03	− 0·37	*	*	*	*
	Marchmont Ⓢ	51	28	44·7	35·6	40·3	+ 3·8	8	25	2	0·10	− 0·50	5·7	− 4·7	11	− 9
2. ENGLAND, N.E.	Alnwick Castle	54	30	47·1	36·3	41·9	+ 4·1	14	25	2	0·13	− 0·36	*	*	*	*
	Durham	51	28	45·3	33·8	39·8	+ 2·8	9	33	2	0·07	− 0·36	9·3	− 1·6	17	− 3
	Shields	50	30	46·3	34·9	40·8	+ 2·2	12	29	2	0·15	− 0·24	*	*	*	*
	Scarborough Ⓜ	52	31	45·8	35·9	41·1	+ 2·7	11	26	3	0·09	− 0·34	17·4	—	31	—
	Spurn Head	45	31	42·6	33·3	38·1	− 0·1	2	32	3	0·06	− 0·22	*	*	*	*
	Lincoln	49	27	42·8	31·5	37·4	+ 0·2	2	39	2	0·07	− 0·31	*	*	*	*
	Fulbeck (Lincolnshire)	—	29	—	?32·0	—	—	—	—	3	0·08	− 0·29	18·0	—	32	—
3. ENGLAND, E.	Hillington Ⓜ	46	26	40·5	28·0	34·5	− 2·5	0	53	5	0·42	− 0·03	16·4	+ 5·4	29	+ 10
	Yarmouth	43	30	39·9	32·6	36·4	− 1·0	0	39	6	0·35	− 0·08	*	*	*	*
	Geldeston	43	23	40·3	27·7	34·3	− 3·6	0	54	6	0·39	+ 0·03	15·0	+ 2·7	26	+ 5
	Cambridge	48	23	41·8	26·2	34·3	− 3·3	0	54	4	0·25	− 0·09	14·2	+ 2·3	25	+ 4
	Felixstowe	42	22	39·9	30·4	35·3	− 3·0	0	47	5	0·41	—	15·5†	—	27†	—
	Clacton-on-Sea	43	26	40·4	30·9	35·8	− 3·4	0	43	5	0·44	—	17·0	—	29	—
	Rothamsted	49	21	42·3	29·5	36·2	− 1·1	1	46	6	0·31	− 0·22	20·8	+ 9·9	36	+ 17
	Shoeburyness	49	27	41·0	31·7	36·5	− 2·0	0	39	4	0·33	0·00	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	49	28	45·0	35·8	40·6	+ 3·6	8	25	3	0·27	− 0·30	20·2	—	36	—
	Bawtry (Hesley Hall)	50	24	46·1	31·0	38·9	+ 1·4	11	44	2	0·05	− 0·35	*	*	*	*
	Nottingham	50	26	44·9	30·1	37·8	− 0·1	8	46	4	0·14	− 0·27	5·6	—	10	—
	Colly Weston (Stamford)	49	25	43·7	30·4	37·3	+ 0·4	5	44	3	0·04	− 0·39	*	*	*	*
	Cheadle Ⓜ	47	29	42·8	34·1	38·6	+ 1·9	2	29	4	0·07	− 0·51	*	*	*	*
	Birmingham (Edgbaston)	49	28	43·7	34·1	39·1	+ 1·2	5	30	1	0·01	− 0·47	2·5	—	4	—
	Shrewsbury	53	25	47·2	34·4	41·1	+ 2·6	15	32	3	0·07	—	*	*	*	*
	Hereford Ⓜ	51	25	45·6	33·7	39·9	+ 1·4	10	33	4	0·15	− 0·40	*	*	*	*
	Cirencester	51	23	44·4	30·1	37·5	− 0·1	7	45	4	0·10	− 0·54	13·6	+ 2·1	23	+ 4
	Oxford	50	25	43·4	30·7	37·3	− 1·1	4	42	2	0·10	− 0·35	12·4	+ 1·4	21	+ 2
5. ENGLAND, S.	London	50	28	41·9	31·1	36·7	− 2·2	0	37	4	0·18	− 0·25	3·1‡	− 3·0‡	5‡	− 5‡
	Swarraton (Alresford) Ⓜ	50	24	41·1	29·0	35·3	− 2·3	0	47	3	0·13	− 0·56	*	*	*	*
	Tunbridge Wells Ⓜ	47	27	40·0	29·2	34·8	− 2·7	0	50	4	0·30	—	9·1	—	15	—
	Dungeness	45	26	41·0	31·4	36·4	− 2·8	0	39	5	0·20	− 0·20	6·0	—	10	—
	Hastings (St. Leonards)	48	29	41·1	31·4	36·4	− 3·1	0	39	5	0·27	− 0·33	8·3	− 5·9	14	− 10
	Southampton	51	28	44·0	31·5	38·0	− 1·9	6	40	2	0·09	− 0·58	18·0	+ 6·3	31	+ 11
	Portland Bill	50	32	45·1	36·7	41·1	− 0·4	9	22	5	0·09	—	*	*	*	*
	Shaftesbury Ⓜ	46	27	42·3	31·6	37·2	− 0·5	1	38	3	0·14	− 0·52	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	52	33	48·5	40·1	44·5	+ 4·6	25	5	7	1·57	− 0·24	*	*	*	*
	Glasgow	50	34	46·3	40·2	43·4	+ 4·9	17	5	4	0·08	− 0·76	0·3	− 5·9	1	− 11
	Cally Ⓢ	49	27	46·5	36·7	41·8	+ 3·4	13	23	5	0·67	0·37	*	*	*	*
	Aspatria	48	29	45·0	36·4	40·9	+ 3·4	8	23	4	0·26	—	8·9	—	16	—
	Douglas (Isle of Man)	50	32	46·5	39·8	43·3	+ 2·7	18	6	4	0·33	0·61	5·8	− 6·2	10	− 11
7. ENGLAND, N.W.	Newton Rigg	50	25	44·9	34·2	39·8	+ 4·2	8	31	4	0·22	—	8·7	—	16	—
	Stonyhurst	46	28	42·6	36·2	39·5	+ 1·7	2	21	3	0·30	− 0·60	6·1	− 2·4	11	− 4
	Blackpool Ⓜ	48	26	45·4	35·8	40·8	+ 2·4	10	25	4	0·16	− 0·48	9·1	+ 0·1	16	0
	Manchester (Prestwich)	47	26	43·6	34·7	39·3	+ 1·2	4	28	3	0·22	− 0·46	5·6	—	10	—
	Liverpool Obsy. (Bidston)	47	31	44·6	37·0	41·0	+ 1·6	7	21	5	0·20	− 0·28	6·0	—	11	—
	Chester (Hawarden Bridge)	50	29	45·7	37·7	41·9	+ 2·1	10	19	1	0·06	—	*	*	*	*
	Llandudno Ⓜ	49	32	46·6	40·3	43·6	+ 2·3	18	5	4	0·30	− 0·30	7·0	− 4·3	2	− 8
	Holyhead	49	36	46·6	40·6	43·7	+ 1·9	18	4	4	0·42	− 0·28	*	*	*	*
	Bettws-y-Coed	52	28	46·6	36·9	41·9	+ 0·8	13	22	4	0·25	—	6·9	—	12	—
8. ENGLAND, S.W.	Pembroke	50	33	46·6	41·1	44·0	+ 1·6	18	3	4	0·21	− 0·61	14·8	+ 1·8	26	+ 3
	Clifton	52	28	45·0	33·8	39·6	− 0·1	8	32	1	0·09	− 0·65	*	*	*	*
	Bath	52	23	45·6	30·4	38·3	− 1·9	10	45	1	0·15	− 0·49	14·7	—	25	—
	Arlington (N. Devon)	48	27	44·6	36·6	40·8	+ 0·6	7	22	4	0·28	− 0·72	*	*	*	*
	Cullompton Ⓜ	52	24	46·2	32·7	39·7	− 0·3	12	37	2	0·08	− 0·65	16·0	+ 5·2	27	+ 9
	Falmouth	50	34	47·2	40·1	43·8	+ 0·4	21	5	3	0·09	− 1·04	11·2	− 2·3	19	− 4
	Plymouth	52	32	47·5	38·4	43·1	+ 0·9	23	10	2	0·06	− 0·79	15·4	+ 3·1	26	+ 5
9. IRELAND, N.	Malin Head	47	37	46·3	39·7	43·1	+ 1·6	17	6	6	0·28	− 0·27	*	*	*	*
	Edenfel (Omagh)	49	31	46·1	36·9	41·7	+ 3·8	11	22	4	0·24	− 0·51	*	*	*	*
	Blacksod Point	50	41	48·9	43·0	46·1	+ 3·3	29	0	7	0·34	− 0·70	*	*	*	*
	Markree Castle	52	32	49·1	39·7	44·6	+ 5·0	28	6	5	0·40	− 0·41	3·6	− 6·9	6	− 12
	Armagh	51	34	46·6	39·3	43·1	+ 4·1	19	8	3	0·06	− 0·54	1·1	− 9·9	2	− 18
	Donaghadee	52	32	47·6	38·3	43·1	+ 2·6	23	10	3	0·26	− 0·35	*	*	*	*
10. IRELAND, S.	Dublin	52	35	48·6	40·4	44·7	+ 2·9	26	4	3	0·11	− 0·37	2·4	− 11·4	4	− 20
	Birr Castle	51	29	47·3	36·3	42·0	+ 2·2	15	16	5	0·23	− 0·41	5·5	− 6·9	10	− 12
	Kilkenny	54	30	47·6	37·0	42·5	+ 1·6	25	14	3	0·14	− 0·60	*	*	*	*
	Waterford	51	30	46·0	37·6	42·0	+ 0·9	11	12	2	0·09	− 0·87	*	*	*	*
	Roche's Point	52	36	48·1	39·7	44·1	+ 0·7	24	6	4	0·05	− 1·08	*	*	*	*
	Valencia	51	42	48·9	42·9	46·0	+ 1·5	28	0	5	0·17	− 1·18	2·1	− 10·8	4	− 19
	Killarney	52	40	47·4	41·8	44·7	+ 1·5	20	1	3	0·32	− 1·06	*	*	*	*
	Foynes	49	35	46·7	39·8	43·4	+ 1·9	19	6	3	0 14	− 0·64	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	51	38	49·1	42·9	46·1	+ 0·4	29	0	3	0·23	− 0·55	12·7	− 1·6	21	− 3
	Jersey	51	31	45·3	36·6	41·1	− 1·3	9	22	4	0·30	− 0·38	12·5	− 3·7	21	− 6

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

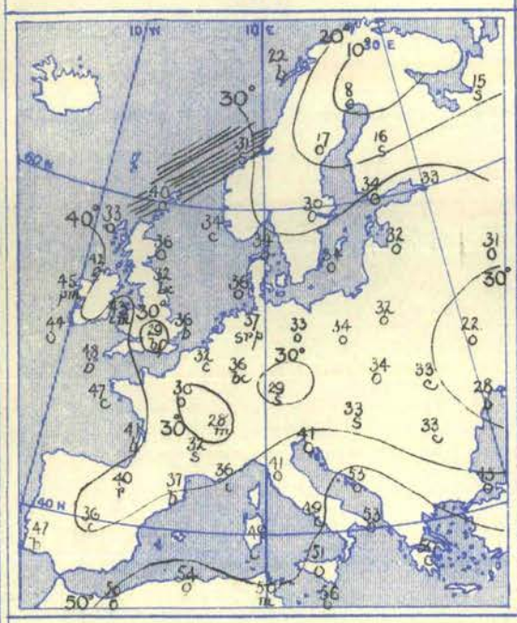
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 30 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 17th January, 1904.

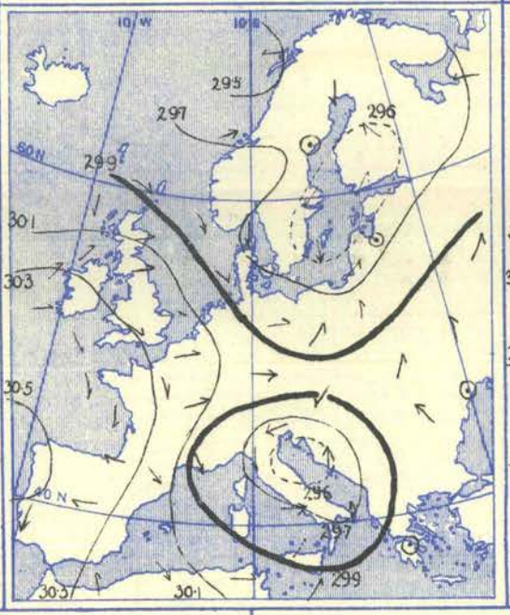
Temperature and Weather. 8 a.m.



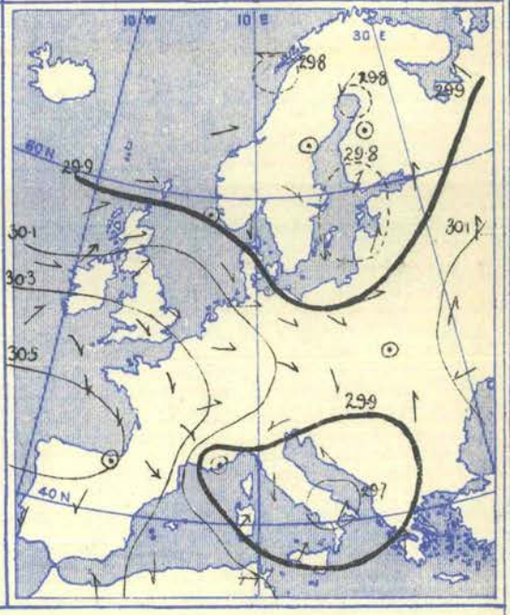
Weather in morning fine and bright in most parts of the United Kingdom and Portugal, but cloudy or overcast generally. Snow falling in Finland, at Christiansund, Lyons, and Munich, sleet at Cuxhaven, and rain at Biarritz and La Calle. Heavy rain later over Algeria, and as much as 1·7 ins. at Tunis. Considerable falls in other southern localities, and slight rain or snow over the northern half of our area.

Temperature risen in most parts of our Islands, but fallen over our area as a whole. Readings at 8 a.m. highest, 56° at Malta, 55° at Oran, and 53° at Brindisi and Lésina. Lowest, (1) 8° at Haparanda, 15° at Archangel, 16° at Kuopio, and 17° at Hernösand, (2) 22° at Nicolaieff, (3) 28° at Belfort and 29° at Munich, (4) 29° in the south-east of England. Rising later to 66° at Oran, 62° at Patras, 61° at Malta, and to above 50° at most stations in the extreme south. Not touching 40° on our south-east coast, and continuing much below 32° over Russia, Finland, and the north of Sweden.

Barometer and Wind. 8 a.m.



6 p.m.

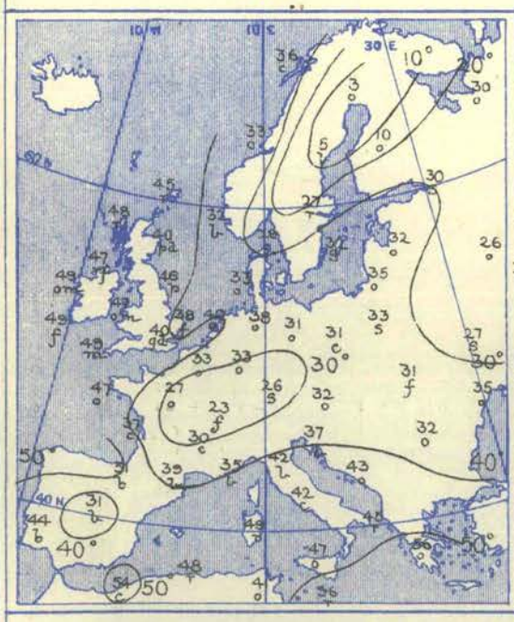


Wind at 8 a.m. circulating cyclonically and with considerable strength around the northern part of Italy and the Adriatic. Light or moderate South-Westerly to North-Westerly winds over our Islands and their vicinity, and light Southerly winds in the south of Russia. Rather feeble cyclonic movements shown over northern Europe. No great change later, but force of wind decreasing in most Italian regions—and increasing to a gale at Tunis.

Barometer at 8 a.m. ranging from above 30·5 ins. in the north-west of Spain and 30·2 ins. in the south of Russia, to less than 29·5 ins. (1) in a deep depression with its centre between Pesaro and Lésina, (2) in an elongated system stretching from Gothland to Kuopio, and (3) in a third depression off the north-west of Norway. Cyclonic disturbances all becoming less deep by evening, and south-western high pressure extending eastwards.

Monday, 18th January, 1904.

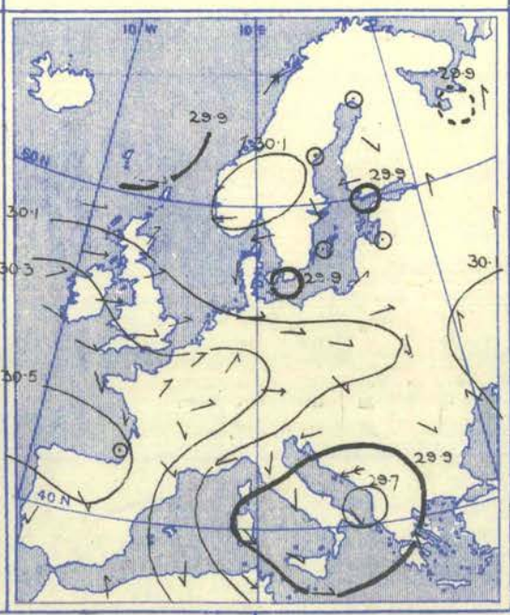
Temperature and Weather. 8 a.m.



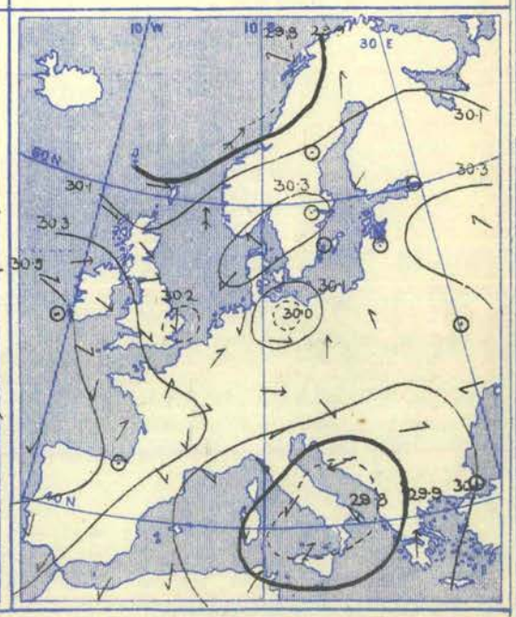
Weather at 8 a.m. fine in the south of France, the Iberian Peninsula, and in parts of Scandinavia; cloudy or dull in almost all other regions, with mist and drizzle over our Islands, rain at several Mediterranean stations, snow at Kiev, in Poland, at Vienna, and Munich, as well as on the shores of the Baltic and at St. Petersburg. Rain or snow experienced later in most parts of our area; amounts not large generally, but 0·79 in. at Bilbao and 1·0 in. at Patras.

Temperature risen decidedly over our Islands and the north-west of Norway, fallen in Sweden. Morning readings highest, 56° at Athens and Malta, 51° at Biarritz, and 49° or 48° in various parts of the United Kingdom. Lowest, (1) 3° at Haparanda, 10° at Kuopio, (2) 27° at Paris, (3) 31° at Madrid, (4) 32° at Aunale. Rising later to 53° at Nairn, to a few degrees higher in the extreme south of Europe, and to 61° at Oran. Severe frost continuing in Sweden and Russia.

Barometer and Wind. 8 a.m.



6 p.m.

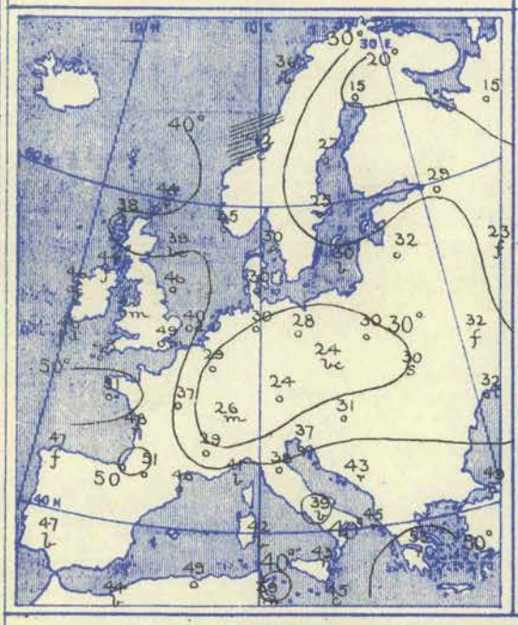


Wind at 8 a.m. showing a cyclonic circulation of considerable strength over Italy and the Mediterranean. Very variable and light elsewhere, but chiefly Westerly over these Islands and South-Westerly in the north of Norway. Wind increasing to a fresh gale from South later at Skudesnaes and from South-West at Christiansund, and shifting to East at Bödo. A small cyclonic movement setting in over our south-eastern counties and the Netherlands.

Barometer in morning ranging from above 30·5 ins. over the north of Spain and 30·3 ins. in the south of Russia, to 29·3 ins. and less in a depression off the north of Scotland, and in an irregularly shaped disturbance lying over the Baltic, the Gulf of Finland, and the north of Russia, to 29·7 ins. and less in the centre of a large depression over southern Italy. Not much change in the general distribution of pressure during day. Scotch depression travelling towards Norway, a small minimum over Denmark moving southwards, and a small secondary appearing off our south-east coasts. High pressure areas increasing somewhat in intensity.

Tuesday, 19th January, 1904.

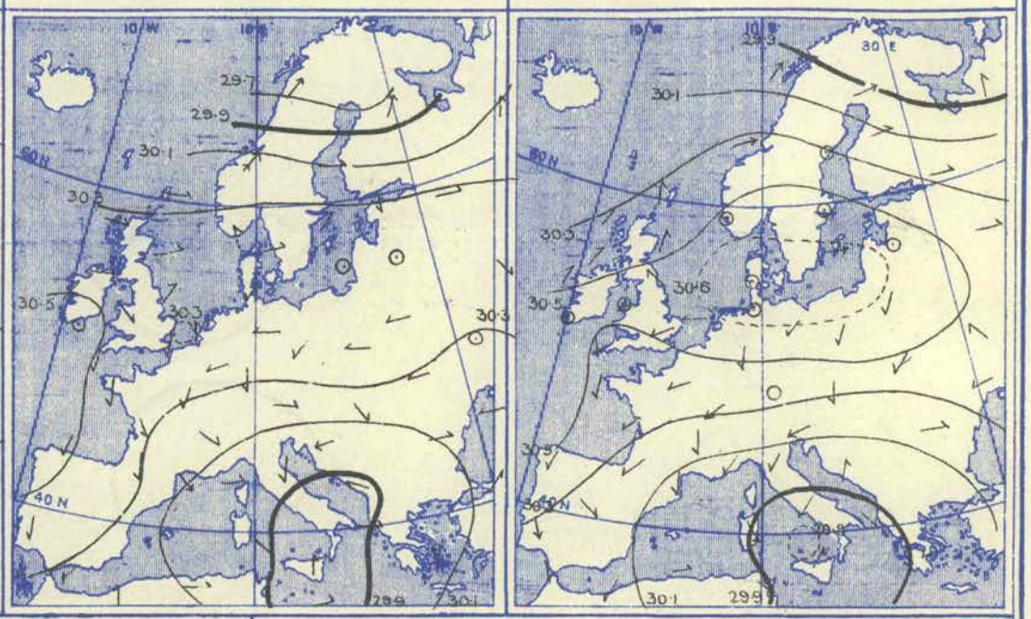
Temperature and Weather. 8 a.m.



Weather at 8 a.m. fine and bright in Portugal, the south of Spain, the west of Algeria, and the south-east of France. Cloudy or overcast as a whole, and misty or foggy in several places. Rainy an some British, Italian, and Grecian stations, as well as in the west of France and at Bilbao, and snow falling in the north of Finland and in different parts of central Europe. Slight rain later in many parts of our Islands and the Continent, and heavier falls in Greece and Algeria—as much as 2·3 ins. at Algiers and 1·5 ins. at Aumale. A fall of 1·2 ins. (snow or rain) at Ulcaborg.

Temperature risen in Scandinavia, England, and France, and fallen in most other regions. Morning readings ranging from 53° at Athens and 49° at Bath and in London, to below 30° over the major portion of the Continent, and to 15° at Haparanda and Archangel. Maxima during day about 50° in several parts of our Islands, the west of France, and in many parts of southern Europe; 61° at San Fernando, Oran, and La Calle. Frost all day over Russia, Finland, and in some parts of central Europe.

Barometer and Wind. 8 a.m. and 6 p.m.

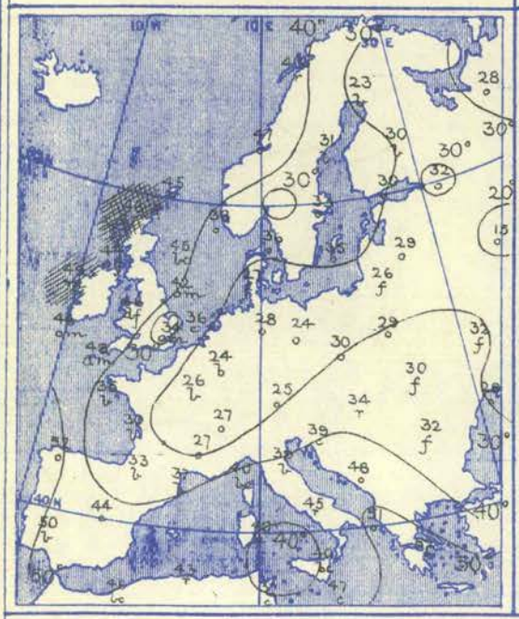


Wind at 8 a.m. showing a cyclonic circulation of light to strong breezes over Italy and its neighbourhood, a similar movement of light breezes over our own south-eastern countries, and moderate to fresh South-Westerly winds or gales over the northern half of Scandinavia. A rather irregular anticyclonic circulation prevailing elsewhere. Very little change taking place during day.

Barometer in morning ranging from above 30·5 ins. over the south of Ireland and the north-west of Spain, and above 30·4 ins. in an irregularly shaped anticyclone extending thence nearly to central Russia, to 29·8 ins. in a depression having its centre between Palermo and Naples, and to less than 29·7 ins. in another system over Lapland. A small minimum (30·3 ins.) shown over Norfolk. Anticyclone increasing in intensity later, northern depression travelling away, and that over Norfolk dispersing. Scarcely any change occurring in the Mediterranean regions.

Wednesday, 20th January, 1904.

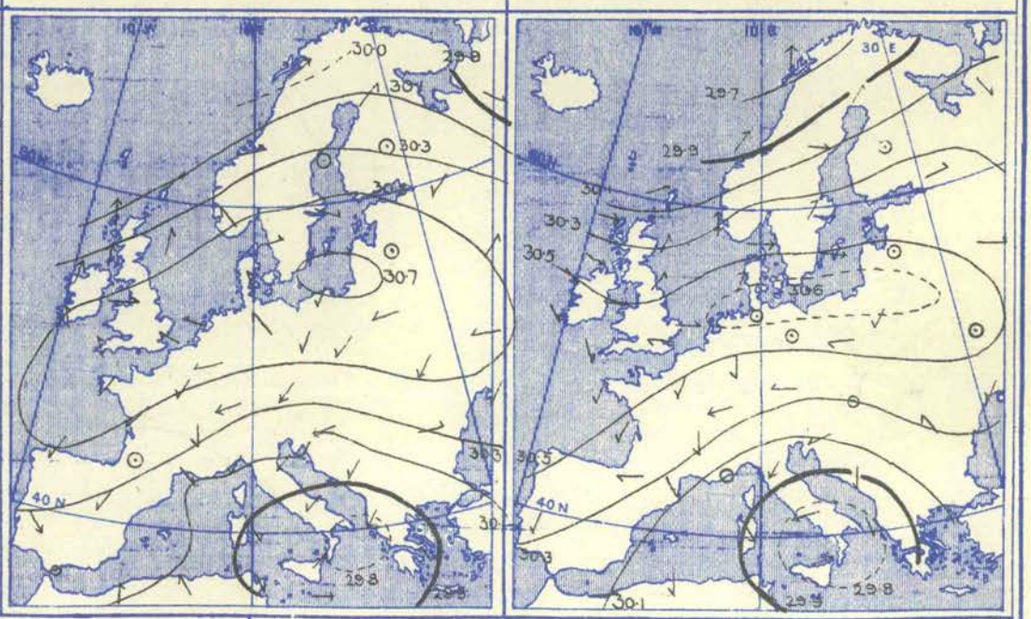
Temperature and Weather. 8 a.m.



Weather dull or cloudy very generally, but fine and bright at many French and Spanish stations, as well as in the north of Sweden. Rainy on our own north-west coasts, at Bodö, Buda-Pesth, and at several Mediterranean stations. Snow falling at Breslau and Prague, and fog prevailing in the south of Sweden, over the Baltic, and at some stations over central Europe. Rather heavy rain occurring at some Algerian and Italian stations later, and also in the west of Norway; slight falls in most parts of the United Kingdom.

Temperature in morning ranging from 52° at Athens and Corunna, 49° at Blacksod Point, and 47° at Christiansund, to 28° at Bath and Oxford, and to a little below or above that point over the greater portion of the Continent, and to 15° at Moscow. Rising to 59° during day at a few of our own western stations, but only to about 36° or 37° in the south-east of England. Maxima a few degrees above 50° in the extreme south generally, and as high as 63° at Nemours. Thermometer not exceeding 39° at Aumale.

Barometer and Wind. 8 a.m. and 6 p.m.

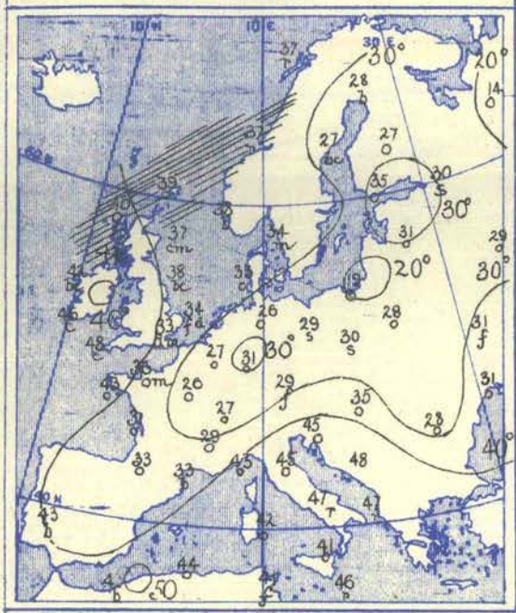


Wind at 8 a.m. strong from South on our north-west coasts, and from South-West at Bodö. A cyclonic circulation of fresh or strong winds prevailing over Italy and the Mediterranean. Light and anticyclonic throughout the greater part of our area. Wind veering to the Westward on our west and north coasts later and decreasing in force; increasing to a moderate or fresh gale from South and South-West on the Norwegian coast. Little change elsewhere.

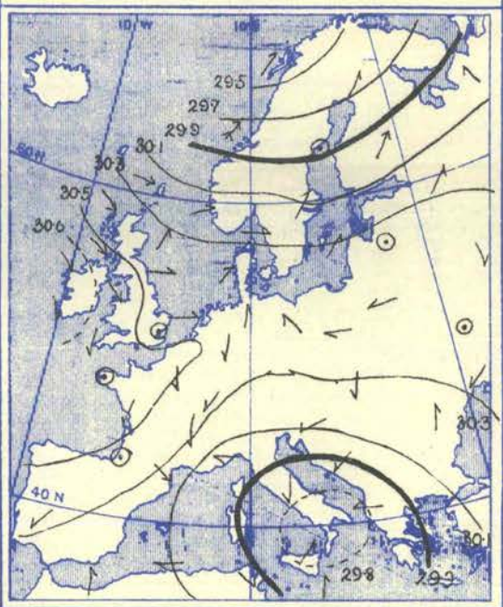
Barometer in morning ranging from 30·5 ins. to 30·7 ins. in a very large anticyclone extending from the Bay of Biscay to Russia and having its centre over the Baltic, to 29·9 ins. over the White Sea, and to less than 29·8 ins. in a depression having its centre between Greece and Italy. Barometer rising along our western coasts during day and falling rather briskly in the northern countries, but no great change occurring in the general distribution of pressure.

Thursday, 21st January, 1904.

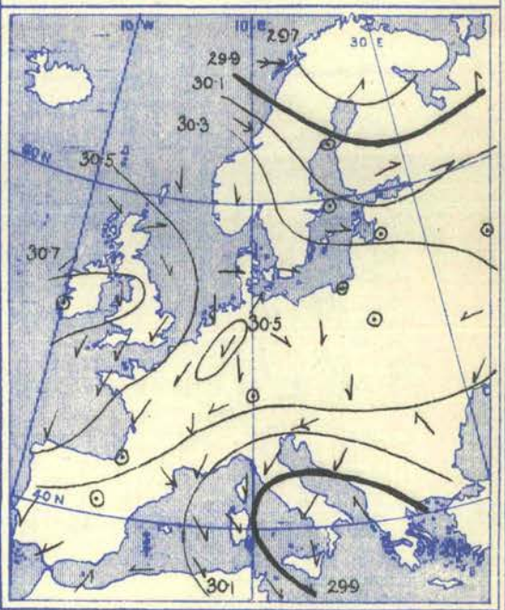
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine or fair at several of our northern and western stations, but foggy, misty, or dull on most of our coasts, with drizzling rain in places. Fine in the Spanish Peninsula, but cloudy or overcast in most continental regions. Rainy in the west of Norway, in the south of Italy, and at Malta, and snow falling in Prussia and at St. Petersburg. Fog prevailing at some stations in central Europe and on the shores of the Baltic. Very slight rain occurring later in various parts of these Islands, and rather larger quantities in the far south and at Christiansund.

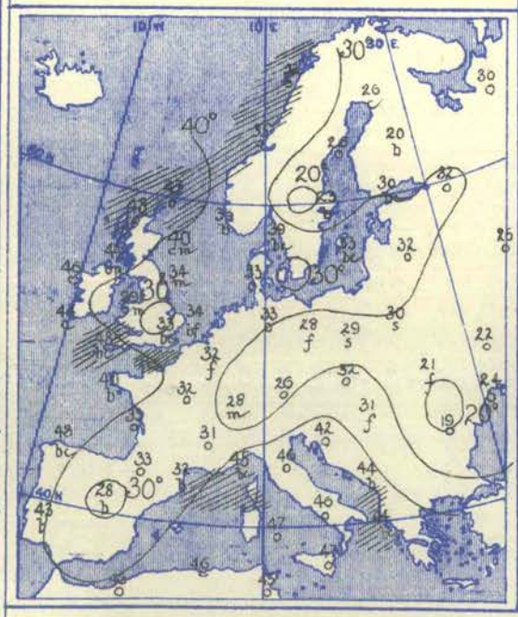
Temperature risen somewhat in Italy and quickly in central England, fallen in most other regions. Readings at 8 a.m. ranging from 54° at Oran, 48° at Lesina and Scilly, to 32° at Dungeness, to below 30° in most parts of France, Germany, and northern and eastern Europe, to 18° at Memel and to 14° at Kharkov and Archangel. Reading only 34° at Aumale. Rising later to 63° at Oran, to a few degrees above 50° at other spots in the far south, and just touching 50° at Valencia and Scilly. Remaining below 32° in many parts of Europe, and again only touching 39° at Aumale. Sharp frost at night over central England.

Wind at 8 a.m. showing a light anticyclonic movement over all the central countries; a South-Westerly current, strong to a gale, in Scandinavia, and a complete cyclonic circulation of moderate to fresh winds over the Mediterranean and Italy. Becoming anticyclonic over our Islands by evening, and veering to west, but continuing strong to a gale in the west of Norway.

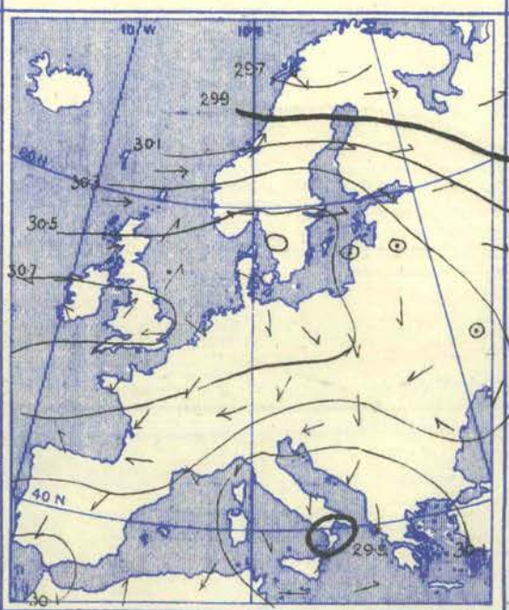
Barometer at 8 a.m. ranging from 30·6 ins. over and to the westward of Ireland, and above 30·4 ins. in an anticyclone extending thence to Little Russia, to below 29·8 ins. in a depression over the south of Italy, and to less than 29·4 ins. in a large system off the north-west of Norway. A small V-shaped secondary lying over the south-east of England. Norwegian disturbance travelling eastwards later, and that over Italy becoming less deep. Barometer rising over the United Kingdom, decidedly in the north.

Friday, 22nd January, 1904.

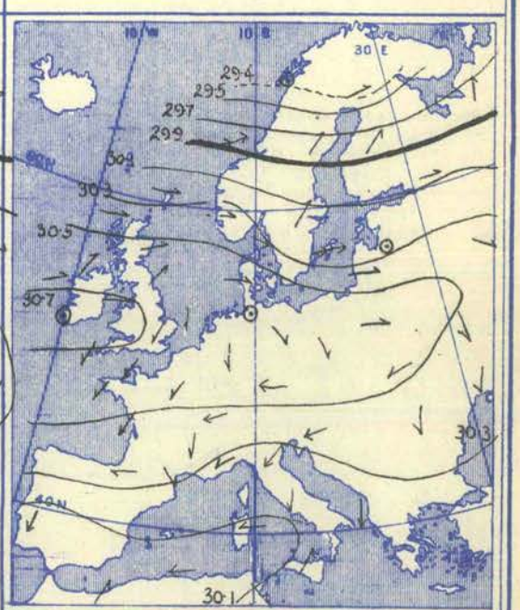
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in the south of England, the Iberian Peninsula, and the southern parts of France, Finland, and Scandinavia; cloudy or overcast generally. Fog prevalent in the east and centre of England, at Brussels, and at some stations in central Europe, showers at Malin Head, and snow at Bodö. Some considerable amounts of snow falling in Finland later and slight rain in a few Mediterranean localities, and at scattered stations in the United Kingdom.

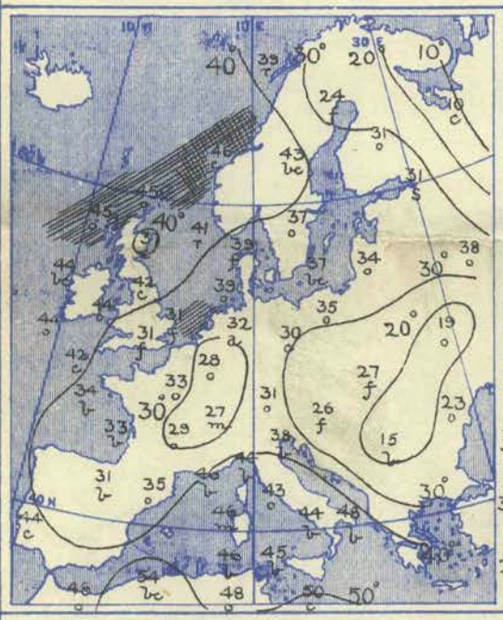
Temperature risen in France, the Netherlands, and Scotland, fallen over central England, changed irregularly over our area as a whole. Morning readings highest, 59° at Malta, 48° at Corunna and Stornoway. Lowest, (1) 18° at Karlstad, 19° at Hermanstadt, 20° at Kuopio, and not many degrees higher in the north and east generally, (2) 28° or 29° over central England, (3) 28° at Madrid, (4) 23° at Aumale. Sharp frost continuing all day in Russia and its immediate neighbourhood, but temperature rising to 52° at Nairn, to a few degrees higher at some spots in the south of Europe, and to 63° at Oran and Sfax.

Wind at 8 a.m. still showing a moderate or fresh cyclonic circulation over Italy and its neighbourhood, and a cyclonic Westerly current, strong to a gale, in the far north. Light anticyclonic airs prevailing elsewhere. No general change occurring later in day, but gale in Scandinavia increasing in strength.

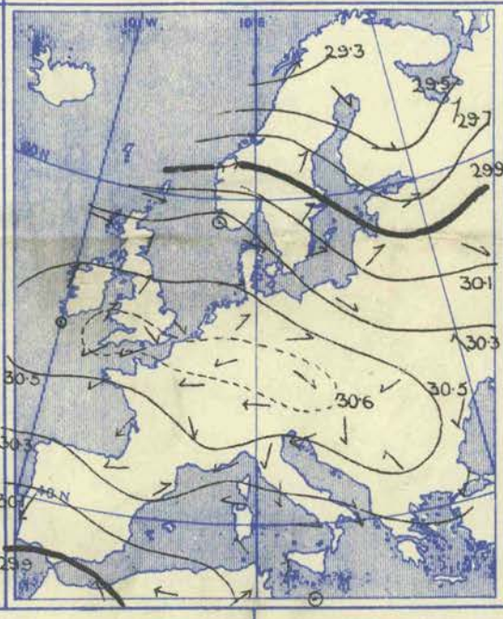
Barometer in morning highest, above 30·7 ins. over Ireland and England, and decreasing gradually to 30·3 ins. on the northern shores of the Black Sea. Lowest, 29·9 ins. and less in a depression over the south of Italy, and below 29·7 ins. in a larger disturbance over Lapland. Italian depression becoming much less deep by evening, but that in the north increasing in intensity. A general increase of pressure taking place within the anticyclonic area and over central Russia.

Saturday, 23rd January, 1904.

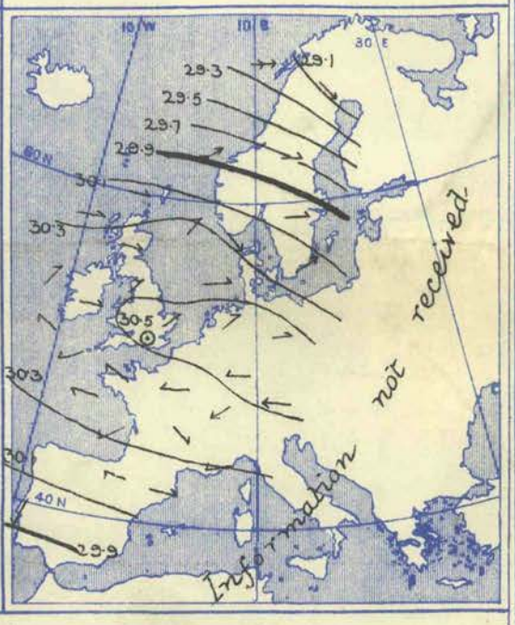
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in various parts of France, Italy, and Algeria; dull or very cloudy over our area as a whole, with rain at Bodö, Skudesnaes, and Cuxhaven, snow at St. Petersburg, and fog or mist over England and at some central European stations. Heavy rain—1·3 ins.—falling at Bodö later, and 0·4 in. at Perpignan, but weather remaining dry over the western countries generally.

Temperature risen quickly at Moscow and at most Danish and Scandinavian stations; morning readings ranging from 54° at Algiers, 50° at Malta, 48° at Brindisi, and 46° at Christiansund, to below 30° at Bath and in London, the inland parts of France, and Germany, and over the major portion of Russia, to 19° at Kiev and to 10° at Archangel. Highest temperature in these Islands during the ensuing twenty-four hours, 49° at Nairn, but thermometer not exceeding 33° in London. Rising to 52° at Nice, and as high as 50° as far north as Hernösand. Frost continuing all day over Germany and the east of France.

Wind in morning mainly Westerly or South-Westerly over the northern half of our area, and between East and West in the more southern regions; light or moderate generally, but strong or fresh in the north of Scotland, and strong to a gale on the coast of Norway. Very little change later.

Barometer at 8 a.m. falling in all the western and northern countries, rising in the south and south east. Morning readings ranging from above 30·6 ins. in the central portion of an anticyclone extending from the south-east of Ireland to Hungary, to less than 29·9 ins. in Morocco, and to below 29·3 ins. in Lapland. Northern depression travelling eastwards during day and the anticyclone moving eastwards steadily and decreasing in intensity.

IV.—GENERAL NOTES, etc.

During the earlier days of the week the highest pressure was situated over southern and central Russia and in another area extending from the Atlantic to the Spanish Peninsula, and our own south-west coasts, while depressions visited Italy and the Mediterranean on the one hand and the northern regions of Europe on the other. The cyclonic wind circulation around the disturbances was frequently strong, and at times increased to the force of a gale. By Tuesday the western high pressure had developed in intensity, extended eastward and effected a junction with that in the east, and the large high pressure area thus formed persisted, with daily modifications in its form and intensity until the end of the period. Cyclonic disturbances of varying size and depth continued to be found in the most northern and southern parts of Europe, those in the former region being larger and deeper than those in the south and giving rise to occasional gales over Scandinavia and its neighbourhood. The weather was fairly dry over the major portion of our Islands and in most of the countries on the Continent, but rain again fell in considerable quantities on the various shores of the Mediterranean, and falls of snow or rain were not infrequent in the far north. Temperature was low generally, but high at times along the Atlantic seaboard both of our Islands and the Continent. Over Russia and central Europe hard frost was almost continuous.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from Observations made at 8 a.m. in the British Islands, Belgium, Holland and Spain; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; and at 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands, Belgium and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway, and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 14.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	5·5	- 1·8	11	- 4
STRATHPEFFER SPA	4·5	- 3·9	9	- 8
EDINBURGH	1·7	- 6·3	3	- 12
COCKLE PARK	10·6	—	20	—
NEWCASTLE-ON-TYNE	3·8	—	7	—
YORK	11·9	+ 4·3	21	+ 8
CROMER	10·3	—	18	—
LOWESTOFT	12·5	—	22	—
DUNMOW	11·7	—	20	—

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
SHEFFIELD	11·7	—	21	—
WORKSOP	11·8	+ 3·0	21	+ 5
THURCASTON	9·8	+ 0·2	17	0
MARGATE	—	—	—	—
BROADSTAIRS	7·1	—	12	—
RAMSGATE	—	—	—	—
EASTBOURNE	8·3	- 4·3	14	- 7
BRIGHTON	13·5	+ 1·3	23	+ 2
WORTHING	15·0	—	25	—
BOGNOR	18·6†	—	32†	—

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week
WESTBOURNE	15·9†	+ 2·7	27†	+ 5
VENTNOR HOSPITAL	14·4	+ 2·4	24	+ 4
BOURNEMOUTH	18·6	—	32	—
MARLBOROUGH	12·7	+ 2·7	22	+ 5
SOUTHPORT	9·7	—	17	—
RHYL	8·3	—	15	—
ABERDOVEY	13·3	—	23†	—
TENBY	16·3	+ 2·6	28	+ 3
TORQUAY	22·1	+ 8·4	37	+ 14
NEWQUAY	17·2	+ 4·4	29	+ 7
GUERNSEY	12·7†	- 0·2	21†	0

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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TWENTY-SEVENTH YEAR. *Vol. XXI. (New Series.)* No. 4. FOURTH WEEK, ENDING SATURDAY JANUARY 30TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 20.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	52	25	45·2	37·1	41·3	3 above	9	+ 2	20	−17	33	+ 8	99	− 46
	1. SCOTLAND, EAST	52	27	44·2	34·0	39·3	2 above	6	− 2	31	−11	22	− 7	131	− 39
	2. ENGLAND, N.E.	54	26	45·2	34·0	39·8	2 above	9	+ 1	32	− 4	25	− 5	124	− 25
	3. ENGLAND, EAST	53	22	43·3	34·8	39·2	1 above	4	− 5	27	−13	16	− 16	128	− 37
	4. MIDLAND COUNTIES	53	25	45·0	34·4	39·9	2 above	8	− 3	30	−11	32	− 6	133	− 37
	5. ENGLAND, SOUTH	51	24	44·5	36·5	40·7	2 above	7	− 6	22	− 9	26	− 22	107	− 23
Principal Grazing Districts.	6. SCOTLAND, WEST	50	29	45·7	38·0	42·0	3 above	10	+ 1	11	−19	40	+ 1	69	− 52
	7. ENGLAND, N.W.	54	27	46·0	36·4	41·4	2 above	11	+ 1	24	− 6	33	− 5	95	− 26
	8. ENGLAND, S.W.	53	28	47·4	38·7	43·2	2 above	22	+ 6	9	−14	81	+ 19	55	− 38
	9. IRELAND, NORTH	51	32	45·3	37·1	41·4	1 above	9	− 5	21	− 5	42	− 12	79	− 27
	10. IRELAND, SOUTH	55	29	47·6	38·9	43·4	1 above	23	+ 2	9	−10	90*	+ 8	41	− 40
	— CHANNEL ISLANDS	52	33	48·3	40·8	44·7	1 above	24	0	3	− 7	95	0	12	− 30

Rainfall.

	DISTRICTS. (See p. 20.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	12	0 (average)	21	+ 1	5·5	+ 0·6
	1. SCOTLAND, EAST	5	9	3 more	16	0	2·4	− 0·1
	2. ENGLAND, N.E.	4		1 more	14	− 1	1·4	− 0·3
	3. ENGLAND, EAST	5	5	1 more	18	+ 2	1·8	+ 0·1
	4. MIDLAND COUNTIES	5	8	3 more	20	+ 5	2·3	+ 0·3
	5. ENGLAND, SOUTH	6	18	12 more	21	+ 6	3·7	+ 1·4
Principal Grazing Districts.	6. SCOTLAND, WEST	5	12	1 more	21	+ 3	5·0	+ 0·3
	7. ENGLAND, N.W.	5	10	4 more	20	+ 4	3·4	+ 0·7
	8. ENGLAND, S.W.	6	15	7 more	20	+ 3	4·2	+ 0·8
	9. IRELAND, NORTH	5	10	3 more	22	+ 3	4·0	+ 1·0
	10. IRELAND, SOUTH	6	13	4 more	22	+ 4	4·3	+ 0·5
	— CHANNEL ISLANDS	6	13	6 more	24	+ 6	4·8	+ 1·8

Bright Sunshine.

	DISTRICTS. (See p. 20.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	− 3	10	− 5	16	− 10	8	− 5
	1. SCOTLAND, EAST	9	− 4	15	− 6	29	− 11	14	− 5
	2. ENGLAND, N.E.	9	− 4	16	− 7	35	− 6	16	− 3
	3. ENGLAND, EAST	11	− 2	18	− 3	42	− 2	19	− 1
	4. MIDLAND COUNTIES	7	− 6	11	−10	32	− 9	14	− 4
	5. ENGLAND, SOUTH	9	− 4	14	− 7	36*	− 8	15	− 4
Principal Grazing Districts.	6. SCOTLAND, WEST	9	− 2	17	− 3	26	− 11	12	− 5
	7. ENGLAND, N.W.	12	+ 1	20	+ 2	32	− 4	14	− 2
	8. ENGLAND, S.W.	7	− 8	12	−13	40	− 9	17	− 4
	9. IRELAND, NORTH	10	− 2	17	− 4	23	− 19	11	− 9
	10. IRELAND, SOUTH	9	− 5	15	− 9	36	− 15	16	− 7
	— CHANNEL ISLANDS	11	− 5	18	− 8	46	− 11	19	− 5

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this period was unsettled and rainy in the most western and north-western districts from the commencement, but these conditions did not extend to the entire Kingdom until a few days later, when rain became general, and in some places heavy. On Friday or Saturday thunder and lightning were experienced in several parts of Ireland and also in the Hebrides.

Temperature exceeded the mean in all districts, the excess being greatest, 3°, in Scotland N. and W. The highest of the maxima were recorded about the middle of the week, when they ranged from 55° in Ireland S. to 51° in Ireland N. and England S., and to 50° in Scotland W. The lowest of the minima, which were registered early in the week over Great Britain, but several days later in Ireland, ranged from 22° in England E. and 24° in England S. to 32° in Ireland N., and to 33° in the Channel Islands.

Rainfall was more than the mean except in Scotland N. In England S.W. and the Channel Islands the fall was twice as much as the mean amount, while in England S. it was three times as much. In the east and north-east of England and in the west of Scotland the excess was slight.

Bright Sunshine was deficient in all districts with the exception of England N.W. The percentage of the possible duration ranged from 20 in the district just named and 18 in England E. and the Channel Islands to 12 in England S.W., 11 in the Midland Counties, and to 10 in Scotland N.

Barometer and Wind. At the commencement of the week a large anticyclone still extended from the Continent over the major part of the United Kingdom, and there were no important depressions in our immediate neighbourhood. The anticyclone, however, soon receded eastwards, while large and deep cyclonic disturbances, moving in a general northerly or northeasterly direction, spread gradually over our Islands, until, by the middle of the week, the whole Kingdom had been brought under their influence. These disturbances were accompanied by strong Southerly and South-Westerly winds, which frequently rose to gale force on our western coasts, and before the end of the period blew with the strength of a moderate to fresh gale in all other parts of the Kingdom.

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II.—DATA from which the SUMMARY on page 19 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	47	36	44·7	40·0	42·4	+ 3·5	11	6	7	0·74	− 0·09	*	*	*	*
	Stornoway	49	34	46·6	38·3	42·6	+ 3·8	20	10	6	1·71	+ 0·67	3·9	− 5·5	7	− 10
	Wick	48	34	45·3	36·7	41·2	+ 3·5	9	22	2	0·04	− 0·44	*	*	*	*
	Lairg 𝔖	48	25	43·1	31·7	37·6	+ 2·2	3	38	3	0·40	− 0·38	*	*	*	*
	Glencarron 𝔖	51	33	44·9	35·5	40·4	+ 3·1	8	26	6	1·36	− 0·34	*	*	*	*
	Fort Augustus 𝔖	49	34	45·1	37·9	41·6	+ 3·5	9	17	5	1·50	+ 0·47	5·9	− 0·4	11	− 1
	Fort William	52	37	46·4	39·3	43·0	+ 4·1	18	8	5	2·18	+ 0·15	0·3	− 8·1	0	− 15
1. SCOTLAND, E.	Nairn	50	29	46·1	34·3	40·4	+ 3·0	11	31	4	0·24	− 0·17	*	*	*	*
	Aberdeen	49	27	44·3	34·0	39·4	+ 1·6	6	31	6	0·49	− 0·04	10·2	− 4·2	19	− 8
	Braemar 𝔖	46	27	39·9	32·5	36·4	+ 1·9	0	39	6	1·76	+ 1·09	*	*	*	*
	Ochtertyre 𝔖	48	31	43·7	34·7	39·4	+ 2·2	5	28	6	1·51	+ 0·48	*	*	*	*
	Leith	52	30	48·0	35·3	41·9	+ 2·7	17	29	3	0·26	− 0·12	*	*	*	*
	Marchmont 𝔖	48	27	42·9	33·4	38·3	+ 1·6	3	32	5	0·96	+ 0·36	6·5	− 5·7	11	− 10
2. ENGLAND, N.E.	Alnwick Castle	52	27	45·5	33·3	39·6	+ 1·7	10	34	4	0·47	− 0·04	*	*	*	*
	Durham	51	26	43·6	34·5	39·2	+ 2·0	4	28	4	0·41	− 0·01	10·5	− 1·9	18	− 3
	Shields	53	29	46·1	34·4	40·5	+ 1·9	11	31	3	0·29	− 0·08	*	*	*	*
	Scarborough 𝔐	52	27	45·7	32·9	39·6	+ 1·1	10	37	4	0·41	− 0·03	7·1	—	12	—
	Spurn Head	50	27	44·9	33·7	39·5	+ 1·2	8	32	4	0·46	+ 0·19	*	*	*	*
	Lincoln	54	26	45·1	35·4	40·4	+ 3·1	9	26	5	0·66	+ 0·26	*	*	*	*
	Fulbeck (Lincolnshire)	—	29	—	36·4	—	—	—	—	4	0·57	+ 0·20	9·4	—	16	—
3. ENGLAND, E.	Hillington 𝔐	51	28	44·8	35·5	40·3	+ 2·9	8	26	5	0·44	0·00	13·7	+ 0·9	23	+ 2
	Yarmouth	48	28	42·9	33·9	38·6	+ 1·0	3	30	4	0·27	− 0·16	*	*	*	*
	Geldeston	49	23	43·4	34·8	39·3	+ 0·9	4	28	5	0·35	− 0·01	12·4	− 1·6	21	− 3
	Cambridge	53	28	44·5	35·7	40·3	+ 2·3	7	25	6	0·32	− 0·01	12·2	− 1·4	20	− 2
	Felixstowe	45	28	41·3	35·5	38·5	0·0	0	25	4	0·46	—	14·3†	—	23†	—
	Clacton-on-Sea	45	27	41·6	34·4	38·1	− 1·2	0	27	4	0·45	—	13·7	—	23	—
	Rothamsted	51	22	44·2	32·5	38·6	+ 1·0	6	37	6	1·54	+ 1·04	6·4	− 6·1	11	− 10
	Shoeburyness	49	29	43·9	36·0	40·1	+ 1·4	5	23	4	0·44	+ 0·12	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	51	26	44·3	34·5	39·6	+ 2·4	6	29	4	0·65	+ 0·07	8·2	—	14	—
	Bawtry (Hesley Hall)	52	26	45·4	34·6	40·2	+ 2·4	10	30	5	0·35	− 0·05	*	*	*	*
	Nottingham	53	25	46·1	33·7	40·2	+ 2·1	11	34	6	0·49	+ 0·08	7·0	—	12	—
	Colly Weston (Stamford)	52	27	44·1	33·6	39·1	+ 1·6	6	33	5	0·42	− 0·01	*	*	*	*
	Cheadle 𝔐	49	25	43·5	33·7	38·8	+ 1·9	4	32	5	0·71	+ 0·14	*	*	*	*
	Birmingham (Edgbaston)	50	26	43·7	34·9	39·5	+ 1·3	5	27	5	1·14	+ 0·67	6·1	—	10	—
	Shrewsbury	52	26	46·3	35·0	40·9	+ 2·0	12	29	4	0·67	—	*	*	*	*
	Hereford 𝔐	51	27	45·3	35·3	40·5	+ 1·6	9	27	5	1·11	+ 0·57	*	*	*	*
	Cirencester	51	26	45·7	32·6	39·4	+ 1·6	10	37	6	1·22	+ 0·59	4·9	− 8·5	8	− 14
	Oxford	52	27	45·4	35·6	40·7	+ 1·9	10	26	5	1·06	+ 0·63	5·6	− 6·9	9	− 11
5. ENGLAND, S.	London	51	28	45·3	35·0	40·4	+ 1·2	9	29	5	0·91	+ 0·48	4·8‡	− 2·4‡	8‡	− 4‡
	Swarraton (Alresford) 𝔐	50	24	44·0	34·1	39·3	+ 1·4	6	31	6	2·54	+ 1·57	*	*	*	*
	Tunbridge Wells 𝔐	49	28	43·0	33·4	38·4	+ 0·6	3	32	5	3·08	—	8·5	—	14	—
	Dungeness	48	30	44·3	36·9	40·8	+ 1·4	6	21	5	0·79	+ 0·42	9·1	—	15	—
	Hastings (St. Leonards)	48	31	43·3	38·2	40·9	+ 1·2	4	15	5	1·45	+ 0·88	10·4	− 5·4	17	− 9
	Southampton	51	31	46·3	39·2	42·9	+ 2·7	18	8	6	2·31	+ 1·65	6·9	− 6·7	11	− 11
	Portland Bill	49	33	46·0	39·7	43·0	+ 1·2	17	6	6	1·83	—	*	*	*	*
	Shaftesbury 𝔐	49	28	43·9	35·7	40·0	+ 2·0	5	25	6	1·23	+ 0·57	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	50	35	47·0	38·9	43·1	+ 3·2	21	9	7	2·28	+ 0·52	*	*	*	*
	Glasgow	49	35	44·8	38·8	41·9	+ 3·2	8	14	5	0·67	− 0·16	6·1	− 1·4	11	− 3
	Cally 𝔖	48	31	44·8	36·3	40·7	+ 2·1	8	23	5	1·30	+ 0·27	*	*	*	*
	Aspatria	49	29	45·3	36·0	40·8	+ 3·1	9	24	5	0·84	—	10·1	—	17	—
	Douglas (Isle of Man)	50	34	46·6	40·2	43·5	+ 2·9	18	5	5	0·79	− 0·11	11·9	− 1·7	21	− 3
7. ENGLAND, N.W.	Newton Rigg	50	27	43·9	35·2	39·7	+ 3·7	5	26	6	1·53	—	10·1	—	17	—
	Stonyhurst	51	29	43·9	36·6	40·4	+ 2·4	5	21	5	0·83	− 0·04	8·3	− 1·9	14	− 3
	Blackpool 𝔐	52	28	45·8	35·9	41·1	+ 2·5	11	26	6	1·35	+ 0·73	10·4	− 0·4	18	− 1
	Manchester (Prestwich)	51	28	44·9	35·6	40·4	+ 1·9	8	25	4	0·57	− 0·07	5·8	—	10	—
	Liverpool Obsy. (Bidston)	52	28	45·6	35·7	40·9	+ 1·4	10	26	4	0·58	+ 0·13	11·3	—	19	—
	Chester (Hawarden Bridge)	54	29	46·8	35·7	41·5	+ 1·5	13	27	4	0·52	—	*	*	*	*
	Llandudno 𝔐	54	33	48·9	38·5	43·9	+ 2·4	28	10	6	0·83	+ 0·26	18·2	+ 5·2	31	+ 9
	Holyhead	49	35	46·1	39·1	42·7	+ 0·9	17	8	6	1·08	+ 0·41	*	*	*	*
	Bettws-y-Coed	52	28	47·7	35·3	41·8	+ 0·5	16	30	7	2·08	—	18·5	—	31	—
8. ENGLAND, S.W.	Pembroke	51	33	47·6	40·7	44·3	+ 2·0	22	4	5	1·17	+ 0·40	5·5	− 9·4	9	− 15
	Clifton	52	30	46·9	38·9	43·1	+ 3·1	21	9	5	1·22	+ 0·50	*	*	*	*
	Bath	53	29	47·1	36·7	42·1	+ 1·6	23	15	6	0·93	+ 0·30	10·3	—	17	—
	Arlington (N. Devon)	50	28	46·0	36·0	41·2	+ 0·8	11	25	6	1·70	+ 0·70	*	*	*	*
	Cullompton 𝔐	53	28	47·7	36·4	42·3	+ 2·0	26	16	6	1·44	+ 0·72	4·1	− 8·4	7	− 14
	Falmouth	52	37	48·5	41·6	45·2	+ 1·7	24	1	6	1·88	+ 0·81	10·1	− 5·2	16	− 8
	Plymouth	51	35	47·7	40·6	44·3	+ 1·9	22	4	6	2·36	+ 1·54	5·7	− 8·6	9	− 14
9. IRELAND, N.	Malin Head	46	32	43·4	35·6	39·7	− 1·9	4	25	4	0·51	− 0·03	*	*	*	*
	Edenfel (Omagh)	50	32	44·0	35·4	39·9	+ 1·7	6	26	4	0·79	+ 0·07	*	*	*	*
	Blacksod Point	51	33	46·7	39·9	43·4	+ 0·5	19	6	6	2·53	+ 1·54	*	*	*	*
	Markree Castle	50	34	45·7	37·1	41·6	+ 1·7	10	21	6	0·87	+ 0·10	9·0	− 3·0	16	− 5
	Armagh	51	34	45·9	36·8	41·5	+ 2·1	11	22	6	0·47	− 0·10	11·0	− 1·4	19	− 2
	Donaghadee	49	32	46·1	37·7	42·1	+ 1·5	19	12	4	0·58	− 0·02	*	*	*	*
10. IRELAND, S.	Dublin	55	36	48·9	39·1	44·2	+ 2·3	28	8	4	0·29	− 0·18	13·3	− 1·7	23	− 3
	Birr Castle	52	31	46·6	36·1	41·6	+ 1·5	13	26	6	0·82	+ 0·20	7·7	− 5·9	13	− 10
	Kilkenny	54	29	48·1	37·1	42·8	+ 1·6	26	14	6	1·24	+ 0·53	*	*	*	*
	Waterford	52	33	47·3	40·0	43·8	+ 2·5	21	6	6	1·35	+ 0·42	*	*	*	*
	Roche's Point	50	37	48·0	41·3	44·8	+ 1·3	23	2	7	1·38	+ 0·28	*	*	*	*
	Valencia	52	37	48·1	40·7	44·6	+ 0·1	24	4	7	2·42	+ 1·09	6·7	− 7·7	11	− 13
	Killarney	52	33	47·6	38·6	43·3	+ 0·1	23	10	5	1·72	+ 0·37	*	*	*	*
	Foynes	52	33	46·3	38·0	42·3	+ 0·4	19	11	5	1·03	+ 0·26	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	38	49·9	42·6	46·4	+ 0·8	31	0	6	1·21	+ 0·46	11·8	− 4·6	19	− 8
	Jersey	51	33	46·6	39·0	43·0	+ 0·4	20	8	6	1·46	+ 0·80	10·3	− 7·8	16	− 12

Stations Marked 𝔐 are in connection with the Royal Meteorological Society, and those marked 𝔖 with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

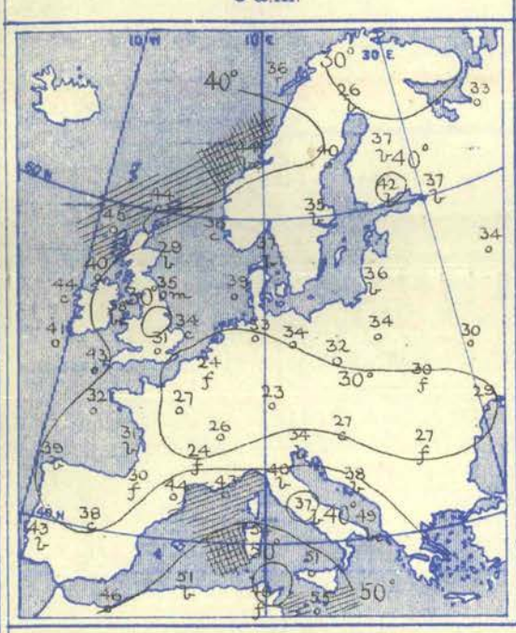
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 30 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

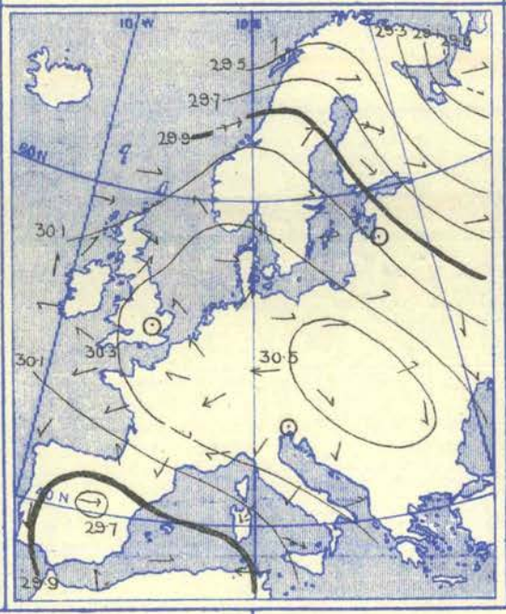
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 24th January, 1904.

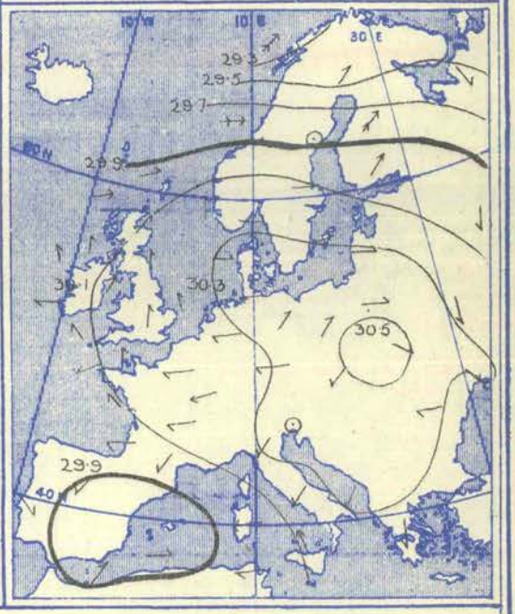
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright at many Italian, Finnish, and Scandinavian stations, but cloudy or overcast as a whole; rain falling at Oran, Barcelona, and Bodö, and snow at Nicolaieff. Scarcely any rain experienced later over our area generally, but considerable quantities at a few stations on the shores of the Mediterranean.

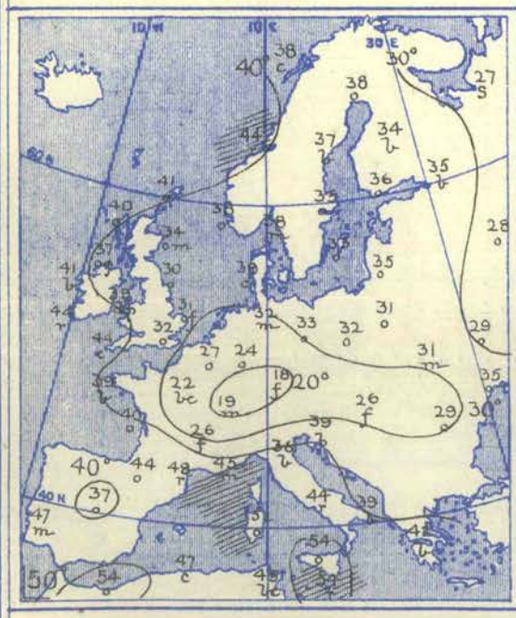
Temperature fallen as a whole, but risen in the north-east of our area, and also in Sicily and its neighbourhood. Morning readings ranging from 55° at Malta, 54° at Cagliari, 49° on the north-east coast of Spain, and 44° at Christiansund, to below 30° over central England and in various parts of France and central Europe. Lowest readings, 24° at Brussels and 23° at Munich. Rising subsequently to 46° at Hernösand, to 50° or some degrees higher in the far south of Europe, and to 63° at Oran. Remaining below freezing point in parts of France, Germany, Austria, and Russia, and only just exceeding it in the south-eastern counties of England.

Wind in morning anticyclonic and light in force over the major portion of Europe and the United Kingdom, but a complete cyclonic circulation of light to strong winds shown over the Spanish Peninsula and its vicinity, and Westerly to North-Westerly winds, strong to a gale over the northern countries. No general change later, but Easterly wind increasing to a fresh gale at Cagliari.

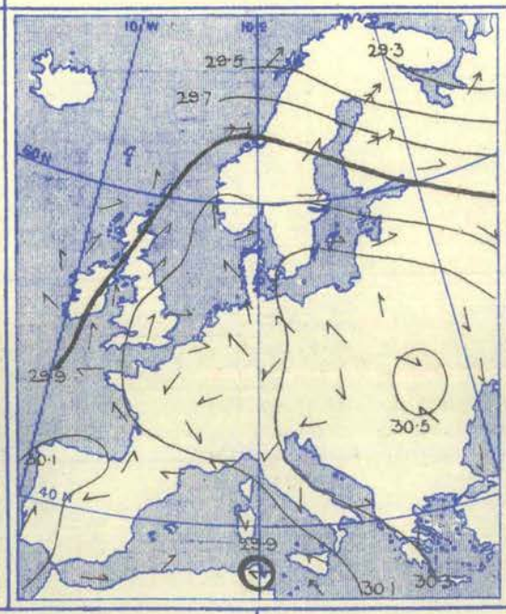
Barometer fallen except in Finland and Scandinavia. Readings at 8 a.m. ranging from above 30·5 ins. in a large anticyclone with its centre directly over central Europe to 29·7 ins. and less in a minimum near Madrid, to about 29·5 ins. off the north-west of Norway, and to below 29·0 ins. over the north-east of Russia. Pressure giving way slowly in the north-western regions during day, and anticyclone moving gradually eastwards.

Monday, 25th January, 1904.

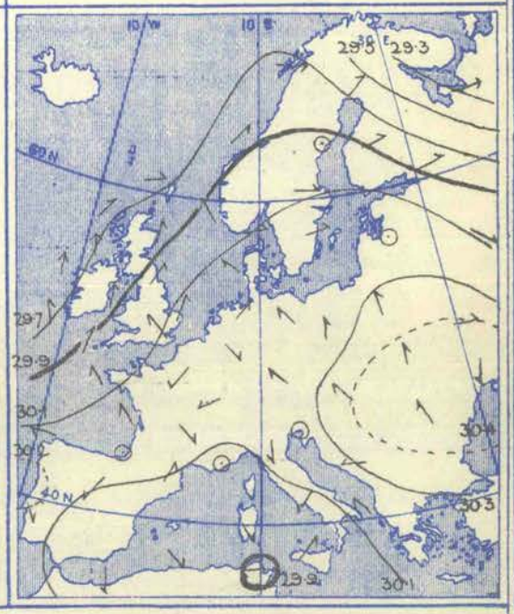
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in Finland and at a few isolated stations elsewhere, but cloudy or dull as a whole. Rainy in the south-west of Ireland, at Perpignan, and Malta, and foggy in some parts of central Europe. Snow falling at Archangel. Rain occurring later at many of our own stations, and heavier amounts in the far south—1·4 ins. at Cape Béarn.

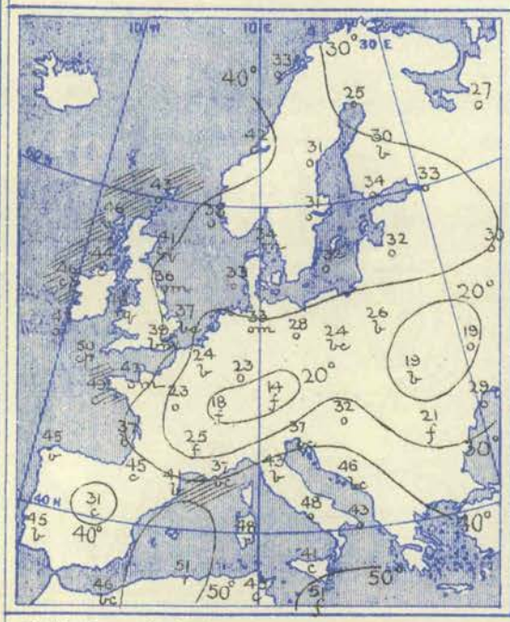
Temperature changed irregularly. Morning readings highest, 54° at Nemours, Malta, and Palermo, and 52° at Cagliari. Lowest, (1) 18° at Munich, 19° at Belfort, 22° at Paris, and 24° in the west of Germany, (2) 25° at Kharkov and 27° at Archangel, (3) 30° in the east of England, (4) 37° at Madrid. Rising to 52° at Scilly during day, to about the same level in the southern parts of France and Italy, to 60° at Palermo, and to above 60° in Algiers. Frost continuing in many Continental regions—maximum at Munich only 21°.

Wind at 8 a.m. light to fresh from between South-East and South over these Islands, and drawing into South-West or West, and blowing a gale in Scandinavia and Finland. Variable Easterly breezes prevailing over Italy and the Mediterranean, and light anticyclonic airs over the central countries. Wind becoming more Southerly over the United Kingdom by evening. Gales in Scandinavia and Finland subsiding.

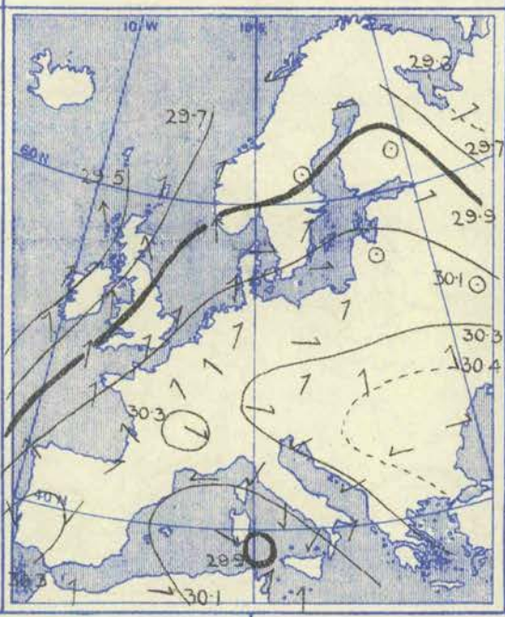
Barometer at 8 a.m. ranging from above 30·5 ins. in an anticyclone over south-eastern Europe to 29·9 ins. in a small minimum over Tunis, to a lower value in a depression off our north-west coasts, and to less than 29·3 ins. in a large disturbance in the far north of Russia. Pressure continuing to decrease slowly during day over the United Kingdom, and Continental anticyclone also decreasing somewhat in intensity.

Tuesday, 26th January, 1904.

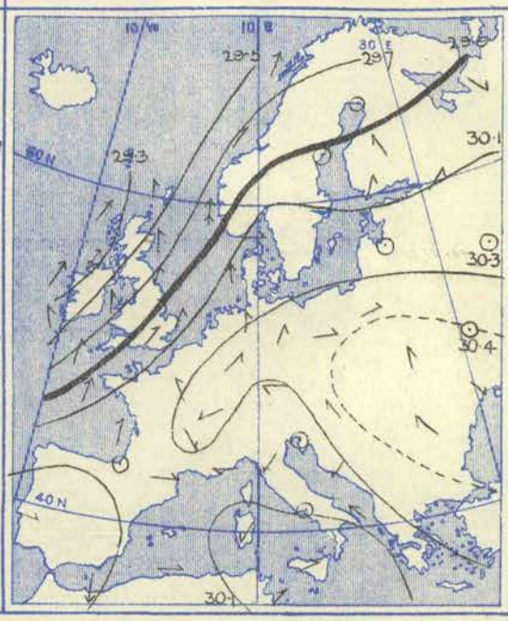
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning locally clear and bright in a few isolated places, but dull or cloudy over Europe generally, and also at most Algerian stations. Rainy on several parts of our own west coasts, and at Algiers, and foggy at Spurn Head, Oporto, and at various spots in central Europe. Rain—mostly in small amounts—experienced later at the majority of our own stations, the west of France, in some parts of Algeria and Italy, and slight snow in Finland.

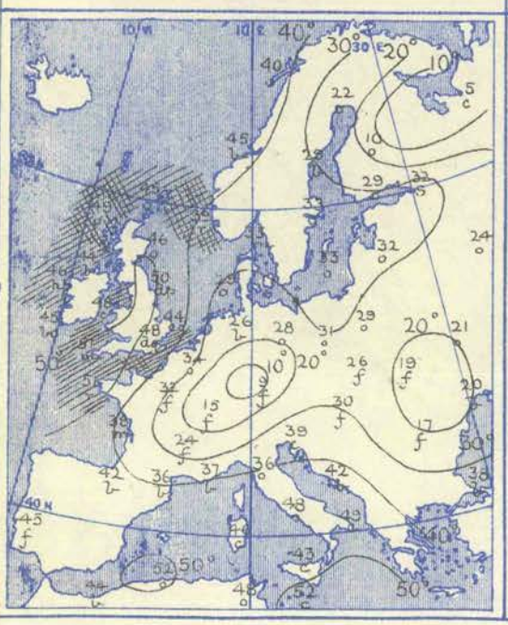
Temperature risen in the United Kingdom, the north and west of France, Italy, and Tunis; fallen in most other regions. Readings at 8 a.m. highest, 53° at Oran, 51° at Malta, 50° at Barcelona and Scilly, and 48° at Naples. Lowest, (1) 14° at Munich, 18° at Belfort, 23° at Paris, and 24° at Brussels, (2) 19° at Kiev and Lemberg, (3) 25° at Haparanda, and 27° at Archangel, (4) 31° at Madrid. Maxima registered during the ensuring twenty-four hours above 50° in several parts of our Islands, in the west and south of France, and the far south generally. Highest value, 63° at Oran. Frost continuing in eastern and central Europe—maximum at Belfort only 22°.

Wind in morning showing a light anticyclonic movement over the south-eastern and central countries, and a moderate cyclonic circulation around Sardinia. Fresh or strong from the Southward over the United Kingdom and the west of Norway, and moderate from the Westward over Finland and the north of Russia. Southerly current increasing to a gale on our west coasts and in the south-west of Norway by evening.

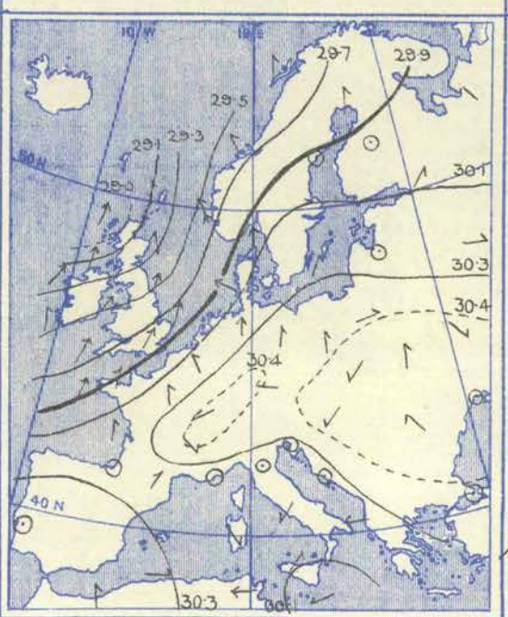
Barometer at 8 a.m. falling decidedly in the west and north-west. Morning readings ranging from above 30·4 ins. in the central portion of an anticyclone lying over Hungary and the south-west of Russia, and above 30·3 ins. over Portugal, to below 30·0 ins. in a depression centred near Sardinia, to 29·6 ins. at Archangel, and to less than 29·5 ins. in a large disturbance off our north-west coasts. Pressure continuing to decrease over these Islands all day, and gradients increasing considerably over the whole of north-western Europe.

Wednesday, 27th January, 1904.

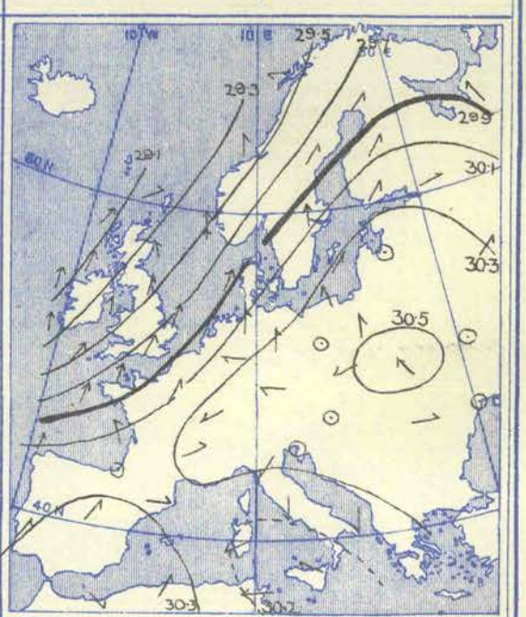
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in the south of France and the north of Spain, and temporarily so at most Irish stations, but continuing cloudy or dull generally. Rainy in Brittany, most parts of England, the Shetlands, and south-west of Norway, and snow falling at St. Petersburg. Fog prevailing over central France and also in various parts of central Europe. Heavy rain later in many north-western regions and at Palermo and Malta. Thunderstorms occurring in Ireland.

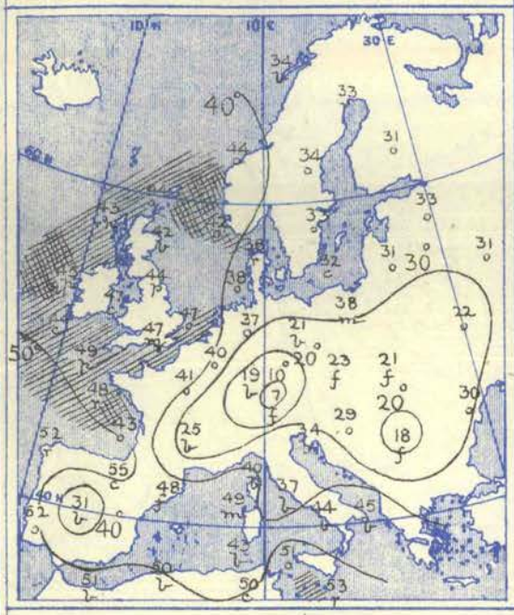
Temperature risen generally, but fallen in Finland and northern Russia. Readings in morning highest, 52° at Algiers and Malta, 51° at Leith and Scilly, and 49° at Stornoway. Lowest, (1) 5° at Archangel, 13° at Kharkov, and 17° at Hermanstadt; (2) 9° at Munich, 15° at Belfort, and 22° at Frankfürt. Lowest in the United Kingdom, 43° at Parsonstown and Clacton. Rising during day to 50° or above in most parts of these Islands, France and the south of Europe, and to 63° on the coast of Algeria.

Wind still cyclonic over the central and south-east of Europe, and cyclonic over Italy and its vicinity. Fresh or strong Southerly winds prevailing throughout our Islands and their neighbourhood, and a Southerly gale in the south-west of Norway. Increasing to a moderate or fresh gale on nearly all our coasts by evening; Southerly gale continuing in Norway, and the wind increasing in force in that country generally.

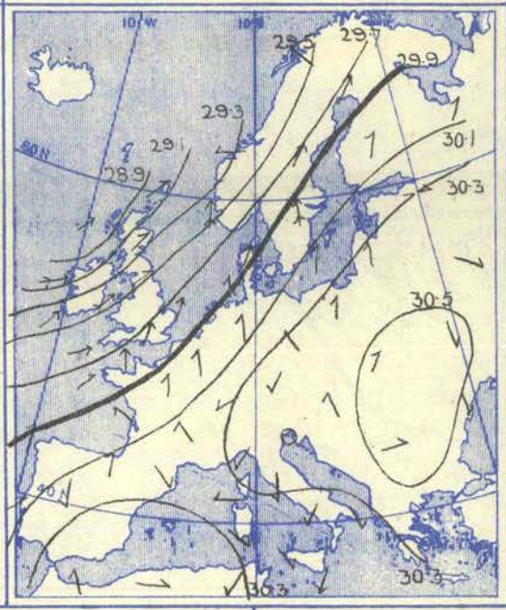
Barometer fallen decidedly over the north-western regions; risen elsewhere. Morning readings highest, above 30·3 ins. to 30·4 ins. in a large anticyclone extending from central France across the whole of central Europe, and above 30·3 ins. over Morocco and the greater part of the Iberian Peninsula. Lowest, less than 29·0 ins. in an extensive depression off our north-west coasts. Relatively low, 30·08 ins. at Malta. North-western disturbance travelling away northwards during day, but a new one approaching Ireland. Not much change within the anticyclonic area; gradients becoming steeper over all the north-western and northern countries.

Thursday, 28th January, 1904.

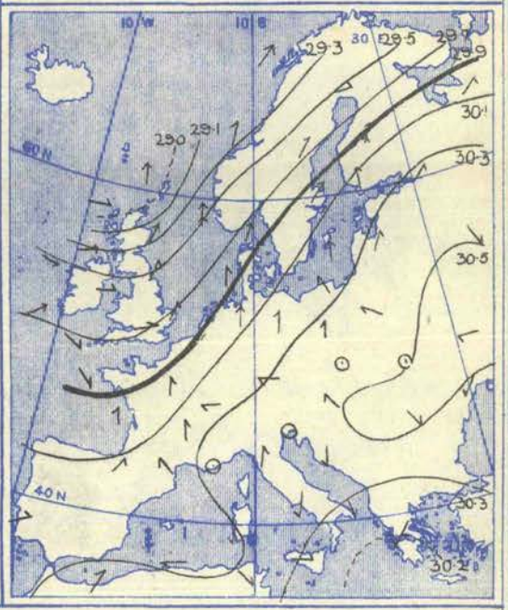
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine at nearly all the Italian stations, at Madrid, and in the south-east of France, but rainy at Turin. Fine also in some Scotch and German localities, but dull or cloudy as a whole. Rain over Ireland, England, at Leith and Stornoway, in the south of Scandinavia and at Haparanda, and also in Brittany and in the north-east of Spain and Portugal. Foggy at several places in central Europe. Rain experienced later over all except the southern, central, and eastern countries—heaviest amount, 0·8 in. at Cherbourg.

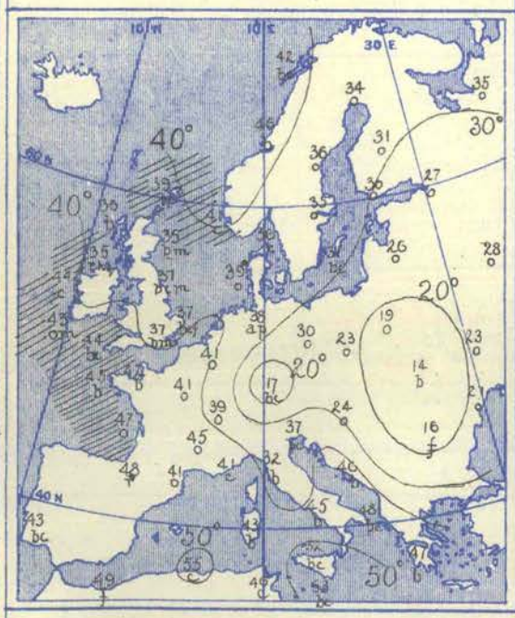
Temperature changed rather irregularly. Morning readings highest, 55° at Biarritz, 53° at Malta, 52° on the Atlantic coast of the Peninsula, 50° or 51° at the Algerian coast stations and at Lorient, and 49° at Oxford. Lowest, (1) 7° at Munich, 19° at Frankfürt, (2) 18° at Hermanstadt, 19° at Kharkov, 23° at Nicolaieff, (3) 33° at Florence and Pesaro, 37° at Rome, (4) 31° at Madrid. Rising during day to 64° at Algiers, 62° at Perpignan, to 54° or 55° at several other southern stations, and to 51° at Scilly. Frost prevailing all day in the centre and east of Europe.

Wind in morning light and anticyclonic over the eastern and central countries, and also over Algeria, Morocco, and the southern half of Spain. Strong Southerly to South-Westerly winds or gales prevailing throughout our Islands and their immediate neighbourhood, and also on the south-coast of Norway and Sweden. Decreasing in force and veering to the westward over our Islands later, but not much change occurring as a whole.

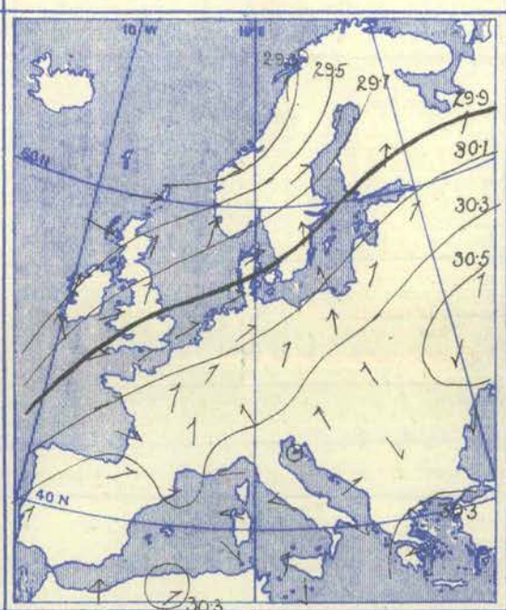
Barometer at 8 a.m. highest, above 30·5 ins. in the central portion of an anticyclone lying over Transylvania, Hungary, and the south-east of Russia. Lowest, 28·9 ins. in a large and deep depression with its centre off the north-west of Scotland. Gradients steep or rather so over the eastern half of our area. Cyclonic disturbance moving north-eastwards later, barometer rising briskly along our western coasts, and gradients becoming much less steep over our Islands.

Friday, 29th January, 1904.

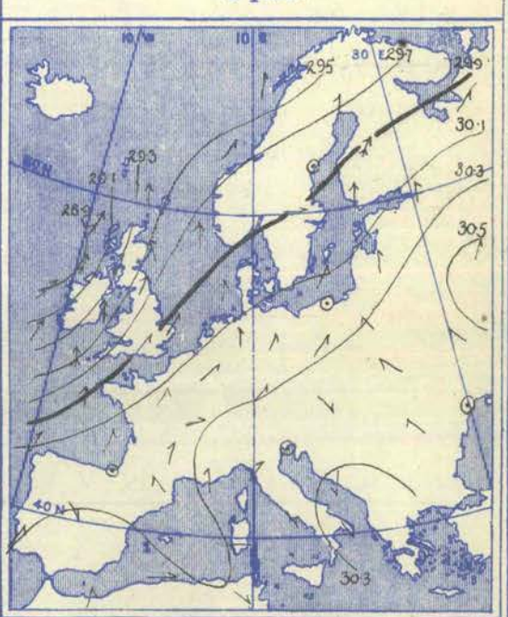
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over the United Kingdom, the west of Norway, Italy, and Greece. Cloudy or dull in most other regions, and rainy at Biarritz, Limoges, Frankfürt, and in the south of Scandinavia. Rain falling later in almost all parts of these Islands, and at several French and German stations, and rain or snow in Scandinavia. Amounts not large generally, but as much as 1·2 ins. experienced at Blacksod Point and 0·4 in. at Holyhead.

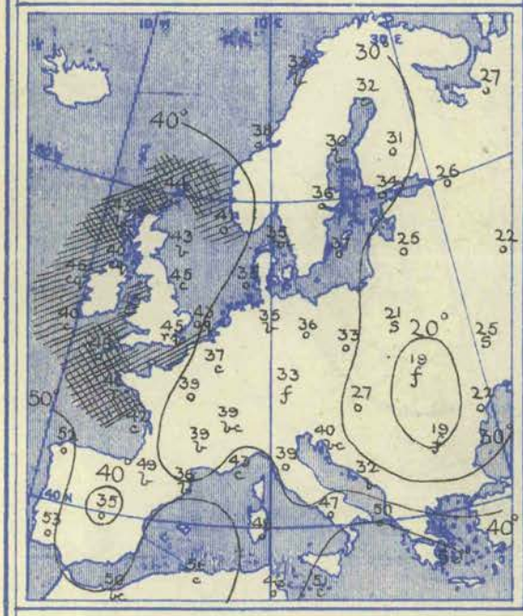
Temperature risen over Germany and Scandinavia; fallen generally elsewhere. Morning readings highest, 55° at Algiers, 53° at Malta, and 50° at Barcelona. Lowest, (1) 14° at Lemberg, 16° at Hermanstadt, (2) 17° at Munich, (3) 27° at St. Petersburg, (4) 32° at Florence. Rising later to 50° at Scilly and Jersey to a rather higher figure at many French and Italian stations, to 64° at Madrid and Nemours, and to 66° at Algiers. Remaining below 32° over the major portion of central Europe and Russia.

Wind in morning Westerly to South-Westerly or Southerly over the greater part of our Islands and northern Europe, and strong or fresh in force. Southerly and South-South-Easterly and blowing a moderate gale on our most western coasts. Light anticyclonic airs still prevailing over the more central and eastern regions. Wind increasing to a whole gale during day in the north-west of Ireland, and to a moderate or fresh gale in nearly all parts of the United Kingdom.

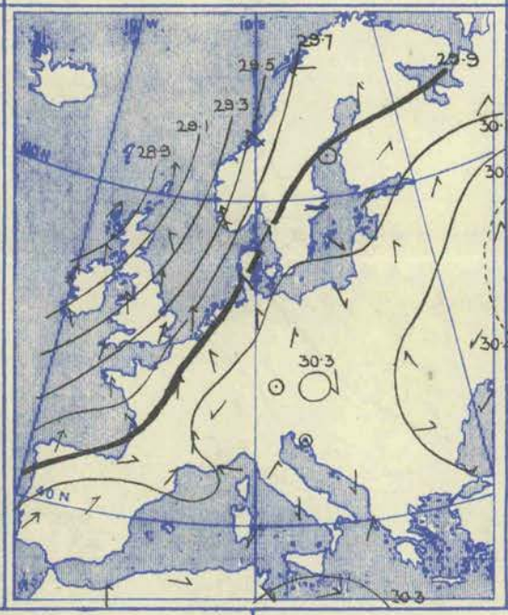
Barometer at 8 a.m. ranging from above 30·5 ins. in the centre of an anticyclone over central Russia to less than 29·3 ins. in a large depression off the west of Norway. Pressure decreasing again in the west of Ireland, and gradients increasing decidedly. Barometer falling quickly to below 28·9 ins. off our north-west coasts by evening, and gradients over our Islands and their immediate neighbourhood becoming steep. Anticyclone over Russia maintaining its position.

Saturday, 30th January, 1904.

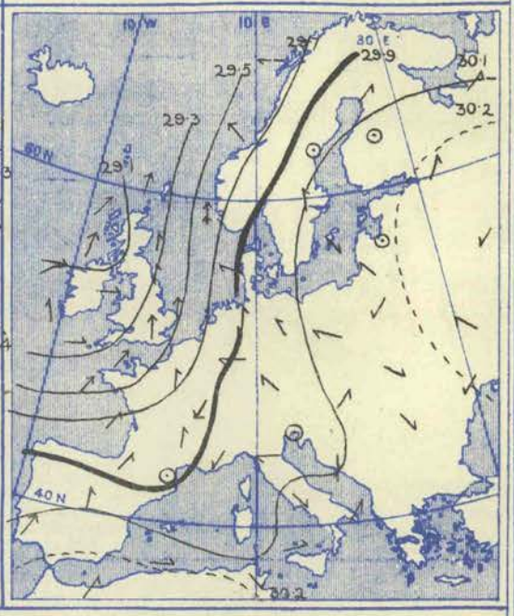
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in Scotland and in the west of Algeria; cloudy or dull over our area as a whole, with rain in some parts of England and at Brest, and snow at Warsaw. Continuous rain falling later in the south and south-east of England, and large quantities in Brittany and other parts of France. Weather remaining dry over the Continent as a whole. Thunder and lightning occurring in the Hebrides, and lightning only at Blacksod Point.

Temperature risen in most places but fallen in Russia and the northern half of Scandinavia. Morning readings ranging from 56° at Algiers and 53° at Lisbon to below 30° over eastern and central Europe, to 19° at Lemberg and Hermanstadt, and to 16° at Kharkov. Rising subsequently to 49° at Scilly and Leith to above 50° in most parts of France and southern Furope, and to 66° in Algeria. Continuing below 32° over the central and eastern countries.

Wind at 8 a.m. strong to a gale from the Southward or South-Westward over our Islands and western Europe generally. Light and anticyclonic airs prevailing over eastern and central Europe. No general change taking place later, but wind veering to West by evening in the north-west of Ireland, and backing to South-South East at Valencia.

Barometer at 8 a.m. ranging from above 30·4 ins. in an anticyclone having its centre over Russia to 28·8 ins. in a large depression off our north-west coasts. Gradients steep over all the western countries. North-western disturbance travelling away northwards later and a small depression forming over the Bristol Channel and subsequently moving south-eastwards to Brittany. Anticyclone decreasing somewhat in intensity and gradients becoming less steep.

IV.—GENERAL NOTES, etc.

The general condition of the weather over all the central and eastern countries, which were throughout the period under the influence of a large anticyclone, was dry and very cold, but the countries bordering the Atlantic gradually became under the influence of large and deep cyclonic systems travelling northwards or north-eastwards and having their centres outside our west and north-west coasts. These disturbances brought a good deal of rain and comparatively warm Southerly and South-Westerly winds. The barometric gradient was generally steep, and gales or strong winds of frequent occurrence both over our Islands and Scandinavia. Separate depressions were again observed over different parts of the Mediterranean, but they were less deep than those experienced in that region during the past few weeks and their effect on the winds and weather consequently less. There were, however, some considerable falls of rain from time to time on the Algerian and Italian coasts, and, towards the end of the week, on the south-east coast of France.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 20.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNESS	10·4	+ 1·2	20	+ 2	SHEFFIELD	7·8	—	13	—	WESTBOURNE	8·8†	- 6·2	14†	- 10
STRATHPEFFER SPA	7·9	- 2·3	14	- 4	WORKSOP	4·9	- 5·4	8	- 9	VENTNOR HOSPITAL	8·9	- 5·1	14	- 8
EDINBURGH	9·2	- 0·5	16	- 1	THURCASTON	8·0	- 3·1	13	- 5	BOURNEMOUTH	8·1	—	13	—
COCKLE PARK	16·9	—	30	—	MARGATE	10·1	- 2·6	17	- 4	MARLBOROUGH	7·4	- 3·9	12	- 6
NEWCASTLE-ON-TYNE	8·5	—	15	—	BROADSTAIRS	—	—	—	—	SOUTHPORT	9·7	—	16	—
YORK	2·9	- 6·4	5	- 11	RAMSGATE	—	—	—	—	RHYL	20·8†	—	35	—
CROMER	13·6	—	23	—	EASTBOURNE	11·3	- 2·9	18	- 5	ABERDOVEY	13·5†	—	23†	—
LOWESTOFT	10·2	—	17	—	BRIGHTON	9·8	- 4·3	16	- 7	TENBY	4·0	- 11·8	7	- 19
DUNMOW	3·3	—	5	—	WORTHING	10·4	—	17	—	TORQUAY	6·6	- 8·4	11	- 14
					BOGNOR	12·2†	—	20†	—	NEWQUAY	7·3	- 7·4	12	- 12
										GUERNSEY	12·0†	- 3·5	19†	- 6

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

Reports received too late for insertion in their proper places.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Jan. 16th, 1904.	Durham	49	30	42·6	34·3	38·6	+ 1·8	2	28	6	0·58	+ 0·14	10·6	+ 0·3	20	+ 1
" " 23rd, "	Margate	—	—	—	—	—	—	—	—	—	—	—	7·0	- 4·0	12	- 7

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 5. FIFTH WEEK, ENDING SATURDAY FEBRUARY 6TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 26.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	45	22	40·1	32·5	36·3	1 below	0	− 7	40	+ 4	33	+ 1	139	− 42
	1. SCOTLAND, EAST	47	23	39·0	32·1	35·6	2 below	0	− 8	45	+ 4	22	− 15	176	− 35
	2. ENGLAND, N.E.	45	30	41·2	34·9	38·1	0 (average)	0	− 9	27	− 8	25	− 14	151	− 33
	3. ENGLAND, EAST	51	30	44·1	36·1	40·1	2 above	6	− 4	22	−17	22	− 20	150	− 54
	4. MIDLAND COUNTIES	48	27	41·6	33·4	37·5	1 below	0	−12	32	− 7	32	− 18	165	− 44
	5. ENGLAND, SOUTH	51	29	45·7	37·3	41·5	2 above	10	− 4	19	−11	36	− 26	126	− 34
Principal Grazing Districts.	6. SCOTLAND, WEST	46	26	40·8	33·0	36·9	2 below	0	−10	36	+ 7	40	− 9	105	− 45
	7. ENGLAND, N.W.	48	29	41·2	33·7	37·4	2 below	0	−11	32	+ 4	33	− 16	127	− 22
	8. ENGLAND, S.W.	49	29	44·9	36·1	40·5	1 below	8	− 9	23	+ 1	89	+ 10	78	− 37
	9. IRELAND, NORTH	46	24	40·8	32·2	36·5	4 below	0	−14	39	+13	42	− 26	118	− 14
	10. IRELAND, SOUTH	54	22	43·1	32·4	37·7	5 below	3	−18	34	+15	93	− 10	75	− 25
	— CHANNEL ISLANDS	51	37	47·4	41·0	44·2	0 (average)	20	− 4	3	− 7	115	− 4	15	− 37

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 26.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	4	7 less	26	+ 2	5·9	− 0·2	5	− 6	9	−10	21	− 16	8	− 6
	1. SCOTLAND, EAST	7	11	5 more	23	+ 4	3·5	+ 0·4	3	−11	5	−18	32	− 22	12	− 8
	2. ENGLAND, N.E.	7	12	8 more	21	+ 3	2·6	+ 0·5	4	−13	6	−21	39	− 19	14	− 7
	3. ENGLAND, EAST	6	8	4 more	24	+ 4	2·6	+ 0·5	11	− 6	17	− 9	53	− 7	18	− 3
	4. MIDLAND COUNTIES	7	14	9 more	27	+ 9	3·7	+ 1·2	6	− 5	10	− 8	38	− 14	13	− 5
	5. ENGLAND, SOUTH	7	12	7 more	28	+ 9	4·9	+ 2·0	15	+ 1	24	+ 1	51	− 8	17	− 3
Principal Grazing Districts.	6. SCOTLAND, WEST	4	5	6 less	25	+ 3	5·5	− 0·3	5	− 7	9	−12	31	− 18	11	− 7
	7. ENGLAND, N.W.	6	10	4 more	26	+ 6	4·4	+ 1·0	9	− 6	14	−10	41	− 10	14	− 4
	8. ENGLAND, S.W.	7	14	6 more	27	+ 5	5·6	+ 1·4	13	− 4	20	− 6	53	− 13	18	− 5
	9. IRELAND, NORTH	6	5	1 less	28	+ 4	4·5	+ 0·8	11	− 3	17	− 5	34	− 22	12	− 8
	10. IRELAND, SOUTH	5	10	2 more	27	+ 4	5·3	+ 0·6	14	− 1	23	− 2	50	− 17	17	− 6
	— CHANNEL ISLANDS	7	18	11 more	31	+ 8	6·6	+ 2·9	18	− 1	28	− 2	64	− 13	21	− 4

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather continued in a most changeable condition over the whole country. Frequent and considerable rain was experienced in almost all English districts and in the east of Scotland, but there were also occasional intervals of clear and bright weather, especially in the south and south-west. In many places the precipitation was partly composed of sleet or snow.

Temperature was below the mean generally, but just equal to it in England N.E. and the Channel Islands, and 2° above it in England E. and S. In Ireland the deficit was as much as 4° or 5°. The highest of the maxima were registered towards the end of the week, when the thermometer rose to 54° in Ireland S. to 51° in the Channel Islands and England S. and E., and to between 49° and 45° elsewhere. The lowest of the minima, which were recorded during the earlier half of the period, ranged from 22° to 24° in Ireland, from 23° to 26° in Scotland, and from 27° to 30° in England. In the Channel Islands the lowest value was 37°.

Rainfall was again more than the mean over the greater part of the Kingdom, but less in Scotland N. and W. and in Ireland N. In the eastern and central parts of England and the Channel Islands the fall was from two to three times as large as the mean.

Bright Sunshine was deficient except in England S. The percentage of the possible duration ranged from 28 in the Channel Islands, 24 in England S., 23 in Ireland S., and 20 in England S.W., to 9 in Scotland N. and W., 6 in England N.E., and 5 in Scotland E.

Barometer and Wind. The chief depressions of this period appeared at first off our south-western coasts, and subsequently travelled slowly north-eastwards or northwards directly over the Kingdom. Two of these systems were rather deep, and were accompanied by strong winds or slight gales on most parts of our coasts, whilst the disturbance of Tuesday was accompanied by an exceedingly high tide which wrought much damage on our own and the French coasts. At the end of the week a depression was moving Northwards along our north-west coasts, while a small secondary was travelling eastwards across England and growing deeper.

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II.—DATA from which the SUMMARY on page 25 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	42	32	39·3	34·9	37·1	− 1·4	0	34	6	0·60	− 0·20	*	*	*	*
	Stornoway	43	30	41·3	32·9	37·1	− 1·7	0	34	4	0·37	− 0·63	12·1	− 0·3	21	− 1
	Wick	45	32	43·4	36·1	39·8	+ 2·1	4	22	7	0·35	− 0·15	*	*	*	*
	Lairg §	40	22	37·9	28·3	33·1	− 2·3	0	62	3	1·03	+ 0·27	*	*	*	*
	Glencarron §	40	28	37·6	30·5	34·1	− 3·0	0	55	6	0·13	− 1·74	*	*	*	*
	Fort Augustus §	45	24	40·2	32·1	36·2	− 1·9	0	41	5	0·19	− 0·80	3·6	− 4·4	6	− 8
	Fort William	42	26	40·9	33·0	37·0	− 1·7	0	35	4	0·30	− 1·70	2·4	− 8·1	4	− 14
1. SCOTLAND, E.	Nairn	42	25	38·3	29·4	33·9	− 3·7	0	57	7	0·73	+ 0·34	*	*	*	*
	Aberdeen	42	33	40·4	35·3	37·9	0·0	0	29	7	1·31	+ 0·76	0·0	− 16·2	0	− 23
	Braemar §	38	23	34·9	27·9	31·4	− 3·1	0	74	7	0·45	− 0·23	*	*	*	*
	Ochtertyre §	47	28	39·7	32·4	36·1	− 1·3	0	41	6	1·29	+ 0·34	*	*	*	*
	Leith	46	33	41·9	34·9	38·4	− 1·0	0	25	7	1·25	+ 0·88	*	*	*	*
	Marchmont §	42	29	38·7	32·4	35·6	− 1·2	0	45	7	1·56	+ 0·96	4·1	− 10·4	7	− 17
2. ENGLAND, N.E.	Alnwick Castle	45	30	41·1	34·3	37·7	− 0·1	0	30	7	1·66	+ 1·13	*	*	*	*
	Durham	41	31	38·8	34·0	36·4	− 1·0	0	39	7	1·00	+ 0·60	0·1	− 14·3	0	− 23
	Shields	43	34	41·9	35·6	38·8	0·0	0	22	7	1·28	+ 0·91	*	*	*	*
	Scarborough ℳ	43	34	41·0	35·5	38·3	− 0·4	0	26	6	1·03	+ 0·59	1·2	—	2	—
	Spurn Head	43	34	42·3	36·0	39·2	+ 0·7	1	22	6	0·63	+ 0·30	*	*	*	*
	Lincoln	45	32	42·1	33·8	38·0	+ 0·4	0	29	7	1·05	+ 0·65	*	*	*	*
	Fulbeck (Lincolnshire)	—	35	—	36·6	—	—	—	—	7	1·55	+ 1·18	8·6	—	14	—
3. ENGLAND, E.	Hillington ℳ	47	30	44·4	33·6	39·0	+ 1·2	7	31	6	1·05	+ 0·61	6·0	− 9·2	10	− 15
	Yarmouth	46	35	42·6	37·0	39·8	+ 2·0	2	18	6	1·04	+ 0·62	*	*	*	*
	Geldeston	51	33	45·4	35·4	40·4	+ 1·8	10	25	6	0·93	+ 0·58	10·1	− 6·0	16	− 10
	Cambridge	49	32	45·0	34·3	39·7	+ 1·3	8	29	7	0·79	+ 0·46	14·0	− 1·6	22	− 3
	Felixstowe	46	36	44·0	38·7	41·4	+ 2·7	6	13	7	0·50	—	20·7†	—	33†	—
	Clacton-on-Sea	46	34	43·4	37·6	40·5	+ 1·4	4	16	7	0·32	—	23·7	—	38	—
	Rothamsted	47	31	43·3	34·3	38·8	+ 1·1	4	28	6	1·24	+ 0·74	9·2	− 5·3	15	− 9
	Shoeburyness	48	35	45·0	37·7	41·4	+ 2·4	8	18	6	0·32	0·00	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	41	31	39·1	32·9	36·0	− 1·4	0	42	7	1·43	+ 0·83	1·2	—	2	—
	Bawtry (Hesley Hall)	43	30	40·3	33·3	36·8	− 1·4	0	36	7	1·77	+ 1·38	*	*	*	*
	Nottingham	43	30	41·7	33·9	37·8	− 0·6	0	29	7	1·77	+ 1·36	2·8	—	5	—
	Colly Weston (Stamford)	47	31	42·7	33·4	38·1	+ 0·1	2	31	7	1·65	+ 1·21	*	*	*	*
	Cheadle ℳ	41	30	39·0	32·6	35·8	− 1·2	0	43	7	1·01	+ 0·44	*	*	*	*
	Birmingham (Edgbaston)	47	31	41·8	33·8	37·8	− 0·7	0	29	7	1·36	+ 0·90	8·4	—	13	—
	Shrewsbury	47	31	42·4	33·2	37·8	− 1·8	1	31	6	1·03	—	*	*	*	*
	Hereford ℳ	47	30	41·7	32·7	37·2	− 2·0	0	34	7	1·47	+ 0·95	*	*	*	*
	Cirencester	47	27	43·6	32·4	38·0	0·0	4	35	7	0·87	+ 0·25	11·3	− 4·2	18	− 7
	Oxford	48	32	43·6	35·9	39·8	+ 0·9	4	23	6	1·52	+ 1·09	12·4	− 1·9	20	− 3
5. ENGLAND, S.	London	51	32	46·1	37·0	41·6	+ 1·9	11	21	6	1·05	+ 0·62	11·2‖	+ 2·9‖	18‖	+ 5‖
	Swarraton (Alresford) ℳ	48	29	44·8	34·8	39·8	+ 1·5	8	27	7	1·42	+ 0·76	*	*	*	*
	Tunbridge Wells ℳ	48	31	45·2	35·2	40·2	+ 2·5	9	26	7	1·14	—	16·2	—	25	—
	Dungeness	47	34	46·3	39·9	43·1	+ 3·4	17	6	6	0·33	− 0·02	12·9	—	20	—
	Hastings (St. Leonards)	47	33	45·4	39·1	42·3	+ 2·5	14	8	7	0·88	+ 0·33	15·8	− 2·0	25	− 3
	Southampton	50	32	47·5	37·4	42·5	+ 2·9	23	13	7	1·35	+ 0·71	15·8	− 0·5	25	− 1
	Portland Bill	49	36	46·6	40·0	43·3	+ 1·3	18	6	7	1·52	—	*	*	*	*
	Shaftesbury ℳ	46	32	43·3	35·3	39·3	+ 0·9	4	24	7	1·88	+ 1·21	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	42	29	41·3	32·6	37·0	− 2·7	0	35	2	0·67	− 1·05	*	*	*	*
	Glasgow	41	30	39·2	35·9	36·6	− 2·2	0	38	6	0·50	− 0·31	1·6	− 7·4	3	− 12
	Cally §	44	26	42·0	31·3	36·7	− 1·9	0	37	3	0·49	− 0·53	*	*	*	*
	Aspatria	44	30	39·9	32·0	36·0	− 2·1	0	42	3	0·34	—	5·7	—	9	—
	Douglas (Isle of Man)	46	30	41·4	35·4	38·4	− 2·2	0	25	7	0·63	− 0·24	8·5	− 6·8	14	− 11
7. ENGLAND, N.W.	Newton Rigg	41	29	38·2	31·0	34·6	− 1·7	0	52	6	0·64	—	4·0	—	7	—
	Stonyhurst	40	34	39·4	34·6	37·0	− 1·2	0	35	5	1·13	+ 0·26	1·4	− 10·9	2	− 18
	Blackpool ℳ	43	31	42·4	32·8	37·6	− 1·2	1	32	6	0·96	+ 0·36	6·3	− 6·5	10	− 10
	Manchester (Prestwich)	41	33	39·8	34·1	37·0	− 1·5	0	35	6	1·19	+ 0·58	1·6	—	3	—
	Liverpool Obsy. (Bidston)	42	34	40·9	34·7	37·8	− 1·8	0	29	6	1·59	+ 1·14	8·0	—	13	—
	Chester (Hawarden Bridge)	43	33	42·2	34·7	38·5	− 1·8	1	26	5	1·12	—	*	*	*	*
	Llandudno ℳ	48	33	43·1	34·1	38·6	− 3·1	3	28	6	1·09	+ 0·54	14·7	− 0·3	24	− 1
	Holyhead	44	34	42·4	35·4	38·9	− 2·8	1	23	7	1·11	+ 0·46	*	*	*	*
	Bettws-y-Coed	44	29	42·0	31·6	36·8	− 4·6	0	36	7	0·41	—	13·7	—	22	—
8. ENGLAND, S.W.	Pembroke	46	36	44·7	38·4	41·6	− 0·7	8	15	7	1·18	+ 0·45	12·8	− 3·8	20	− 6
	Clifton	47	33	43·7	37·3	40·5	+ 0·2	5	18	7	0·75	+ 0·06	*	*	*	*
	Bath	49	29	44·9	34·1	39·5	− 1·2	8	30	7	1·06	+ 0·45	12·4	—	19	—
	Arlington (N. Devon)	46	30	43·4	33·4	38·4	− 2·0	4	31	7	0·79	− 0·24	*	*	*	*
	Cullompton ℳ	48	29	45·1	33·5	39·3	− 1·1	9	32	6	1·73	+ 1·00	9·2	− 5·3	14	− 8
	Falmouth	47	35	45·5	38·4	42·0	− 1·5	10	10	7	2·18	+ 1·15	16·3	− 1·4	25	− 2
	Plymouth	49	31	46·8	37·6	42·2	− 0·3	20	12	7	1·77	+ 1·00	13·5	− 3·0	21	− 5
9. IRELAND, N.	Malin Head	42	31	40·1	33·3	36·7	− 4·9	0	37	5	0·40	− 0·14	*	*	*	*
	Edenfel (Omagh)	41	27	38·7	30·9	34·8	− 3·7	0	50	6	0·61	− 0·07	*	*	*	*
	Blacksod Point	44	31	41·9	35·0	38·5	− 4·3	0	25	7	0·42	− 0·55	*	*	*	*
	Markree Castle	44	24	40·4	27·5	34·0	− 6·0	0	56	7	0·68	− 0·08	14·6	+ 0·9	24	+ 1
	Armagh	43	28	40·8	32·1	36·5	− 3·1	0	39	5	0·64	+ 0·08	6·9	− 7·1	11	− 12
	Donaghadee	46	29	42·6	34·4	38·5	− 2·2	2	27	5	0·51	− 0·07	*	*	*	*
10. IRELAND, S.	Dublin	45	30	42·7	35·2	39·0	− 3·1	2	25	5	1·47	+ 1·00	15·8	− 0·4	26	− 1
	Birr Castle	43	22	40·9	28·3	34·6	− 5·8	0	52	6	0·74	+ 0·18	7·9	− 7·0	13	− 11
	Kilkenny	44	24	40·7	29·9	35·3	− 6·1	0	47	5	1·00	+ 0·33	*	*	*	*
	Waterford	48	28	42·3	31·6	37·0	− 4·6	1	37	4	1·36	+ 0·48	*	*	*	*
	Roche's Point	46	30	43·7	34·1	38·9	− 4·6	5	29	7	1·48	+ 0·43	*	*	*	*
	Valencia	47	32	44·7	34·9	39·8	− 4·7	8	27	4	0·32	− 0·97	19·4	+ 3·3	31	+ 5
	Killarney	54	29	46·6	32·6	39·6	− 3·6	13	36	5	1·55	+ 0·24	*	*	*	*
	Foynes	49	27	43·0	32·4	37·7	− 4·6	3	34	2	0·38	− 0·39	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	48	40	47·1	41·3	44·2	− 1·4	18	2	7	2·93	+ 2·23	9·1	− 9·6	14	− 15
	Jersey	51	37	47·7	40·7	44·2	+ 1·4	21	4	7	0·69	+ 0·05	21·3	+ 0·8	33	+ 1

Stations Marked ℳ are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

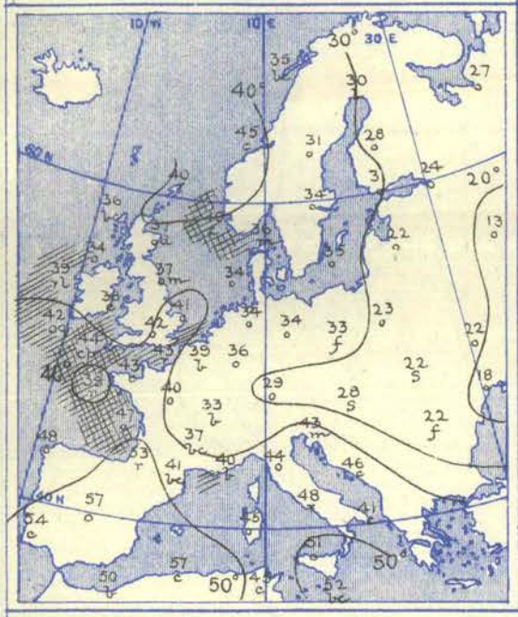
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 30 additional stations will be found in a Table on the last page of this issue.

‖ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 31st January, 1904.

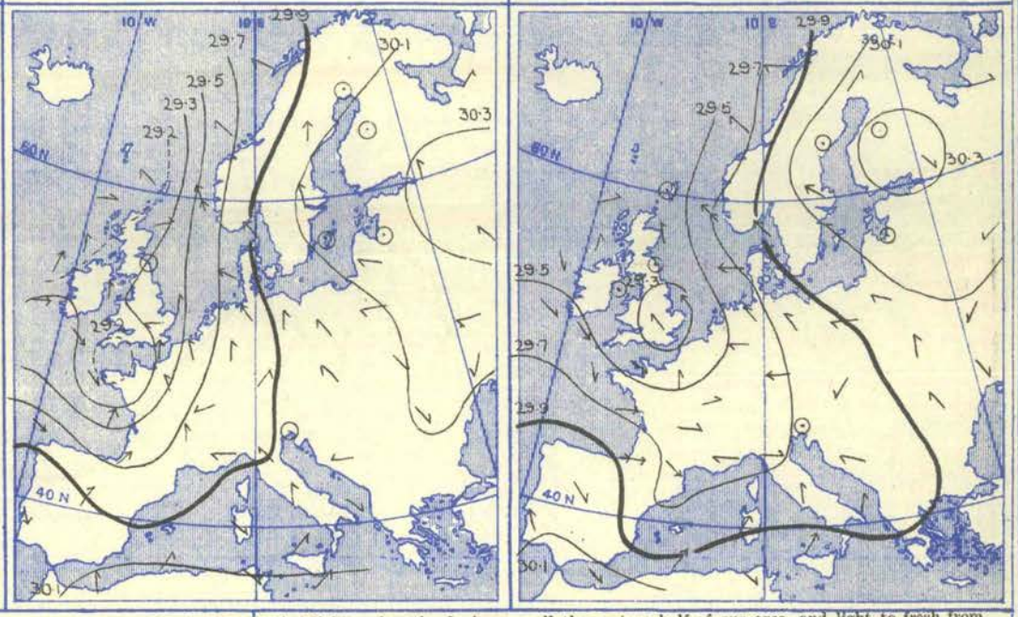
Temperature and Weather. 8 a.m.



Weather at 8 a.m. cloudy or overcast at nearly all stations. Rain in some parts of Italy and in many French and British districts, and snow at Buda-Pesth and Lemberg. Heavy rain falling during day over the United Kingdom, France, and Italy—0·73 in. and 0·75 in. respectively at Oxford and Nottingham, and 1·2 ins. a Biarritz.

Temperature fallen over our Islands, but changed irregularly as a whole. Readings at 8 a.m. highest, 57° at Algiers and Madrid, 54° at Lisbon, and 53° at Biarritz. Lowest, (1) 13° at Moscow, 15° at Kharkov, 18° at Odessa, 22° at Hermanstadt, and 23° at Memel, (2) 31° at Karlstad and 33° at Faerder, (3) 32° at Parsonstown. Maxima during day several degrees below freezing point over eastern and the greater part of central Europe, but nearly 50° at some of our own southern stations, above 50° in most of the southern and Mediterranean regions, as high as 66° at Oran and La Calle, and 70° at Nemours.

Barometer and Wind. 8 a.m. and 6 p.m.

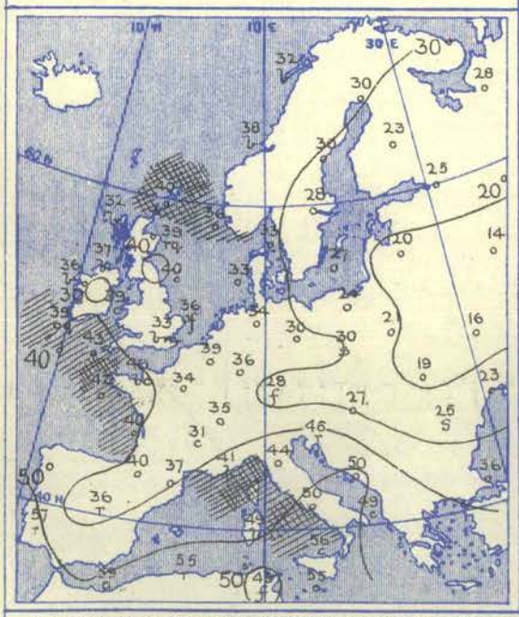


Wind light and anticyclonic over all the eastern half of our area, and light to fresh from between South and South-West on our north and north-west coasts. A moderate to fresh or strong cyclonic circulation prevailing around the western portion of the English Channel. Strong winds or gales from the South-Eastward blowing on the eastern shores of the North Sea. The cyclonic circulation becoming transferred further to the eastward by evening, and wind increasing to a strong South-Westerly or Westerly breeze over the western half of the Mediterranean.

Barometer fallen except in the north and north-west. Morning readings ranging from above 30·3 ins. in an anticyclone centred over the northern half of Russia to about 29·10 ins. in the centre of a depression off the north of Brittany, and to a similar level in a larger system off the north of Scotland. Depression in south-west travelling east-north-eastwards to the south-east of England later, and Scotch disturbance retreating northwards. An irregularly shaped area of low pressure forming over the south of France and its vicinity.

Monday, 1st February, 1904.

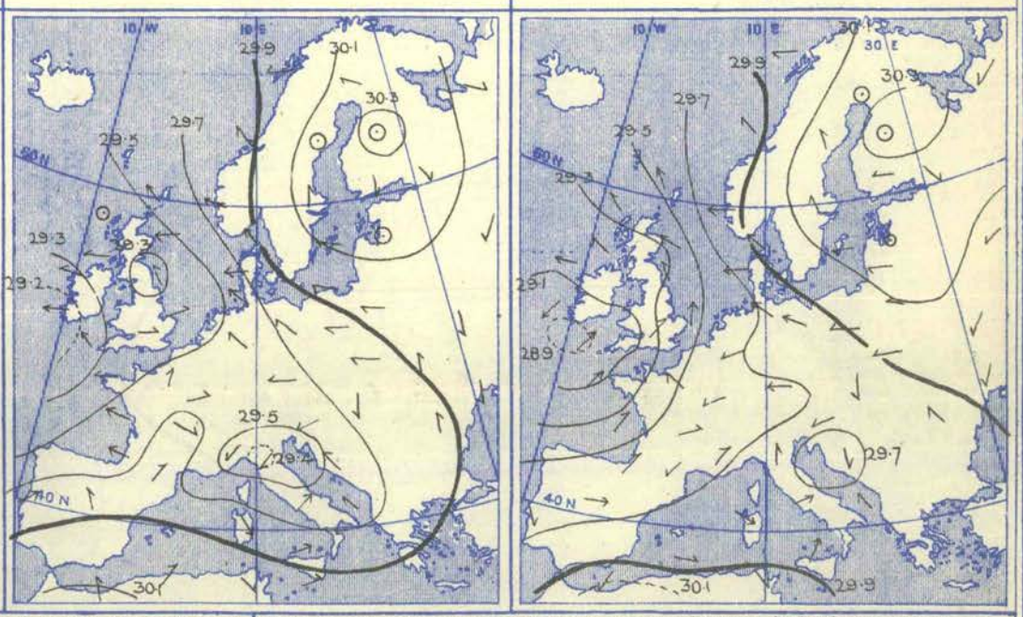
Temperature and Weather. 8 a.m.



Weather at 8 a.m. fine and bright in Ireland and the southern and western counties of England and in the west of Norway. Dull or very cloudy in nearly all other regions. Rainy in Scotland, the Spanish Peninsula, and Algeria, snow falling at Breslau and Hermanstadt, and fog prevailing at Yarmouth and at some stations in central Europe. Rain becoming general over our Islands later, as well as in most parts of France—heaviest falls, 1·0 in. at Scilly and 0·6 in. at Rochefort. Large quantities also occurring in the Peninsula—0·8 in. at Lisbon and 1·1 ins. at Madrid.

Temperature fallen except in the extreme south. Morning values highest, 59° at Nemours, 57° at Lisbon, 56° at Palermo, and 55° at Malta. Lowest, (1) 14° at Moscow, 16° at Kiev, and 19° at Lemberg and Memel, (2) 24° at Parsonstown, 31° at Bath, and 32° at Nairn, (3) 36° at Madrid. Rising to 70° or a little higher on the coast of Algeria, to 61° at Malta and Palermo, and to above 50° in the south and west of France. Highest in our Islands, 46° at Scilly and Dungeness.

Barometer and Wind. 8 a.m. and 6 p.m.

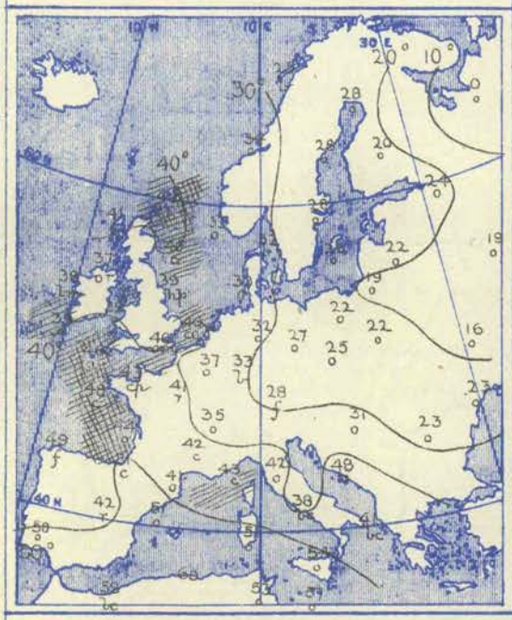


Wind at 8 a.m. showing a cyclonic circulation of strong breezes to fresh gales around the north of Italy, a like movement, but of little strength, around the north of England, and a partial cyclonic circulation of moderate to strong Easterly winds on our south-western coasts. Light anticyclonic airs prevailing over northern and north-eastern Europe, but a fresh gale from East-South-East blowing in the south-west of Norway. Cyclonic movement of winds becoming more pronounced over our south-western districts during day, but that over our northern coasts dying out.

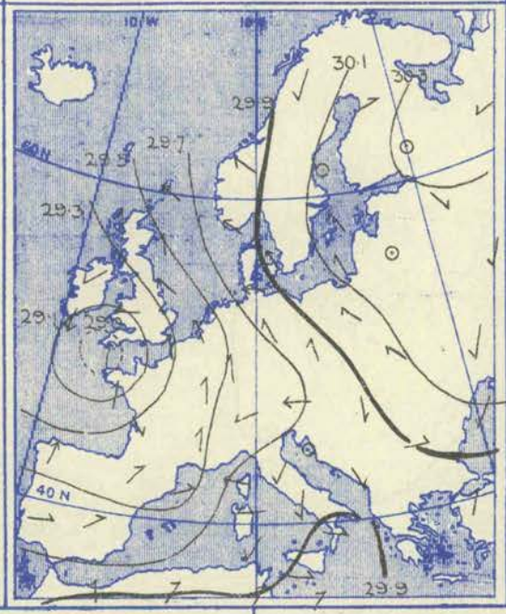
Barometer at 8 a.m. ranging from above 30·3 ins. over Finland in the centre of an extensive anticyclone to below 29·4 ins. in an irregularly shaped depression over the north of Italy and the Gulf of Genoa, to less than 29·3 ins. in a minimum centred over Durham, and to below 29·2 ins. in another disturbance off the south-west of Ireland. Both the south-western and Italian systems moving eastwards later, and that in the north of England becoming merged with that approaching from the Atlantic. Gradients increasing over our Islands and France.

Tuesday, 2nd February, 1904.

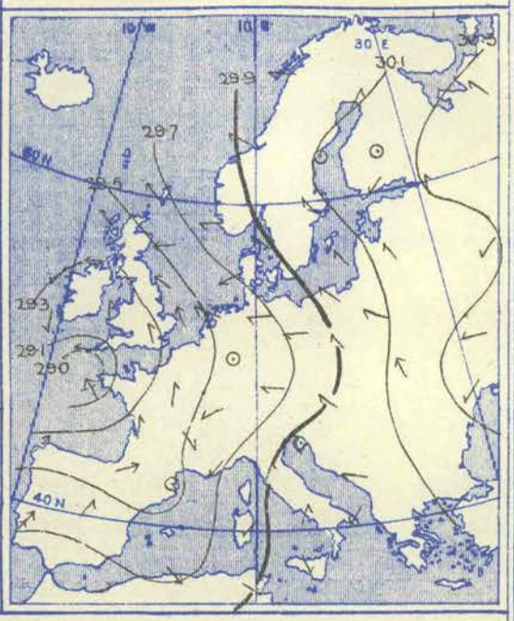
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or overcast generally, but fine and bright in Algeria and at some Italian stations, as well as at Bodö and Constantinople. Rainy in Ireland, England, and in most parts of France. Much rain falling during ensuing twenty-four hours over the United Kingdom and France, and slighter amounts in several other western localities. As much as 1·44 ins. at Scilly, 1·32 ins. at Nice, and 1·6 ins. at Belfort and Besançon.

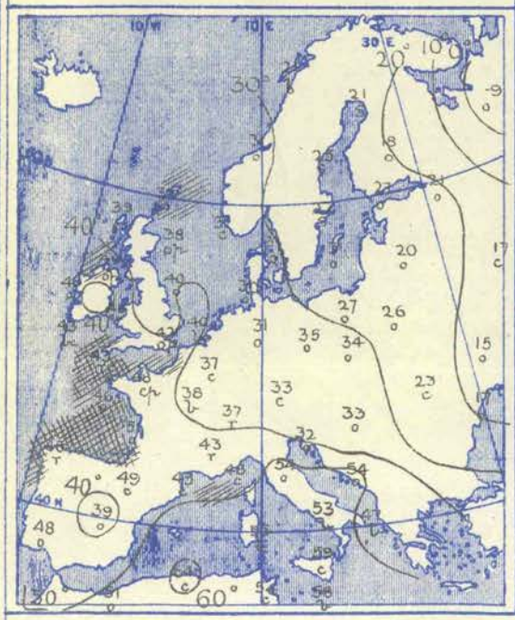
Temperature fallen in Italy and northern Europe, changed irregularly or risen elsewhere. Readings at 8 a.m. highest, 69° at Algiers, 57° at Malta, and 51° at Barcelona and Biarritz. Lowest (1) 0° at Archangel, 14° at Kharkov, 19° at Moscow, 20° at Kuopio, and 25° at Bodö, (2) 28° at Munich, (3) 35° at Pesaro and 38° at Rome, (4) 32° at Nairn, and 37° at Parsonstown and Nottingham. Rising later to 48° on our south-western coasts to between 50° and 60° on the various shores of the Mediterranean generally, and to above 70° on the coast of Algeria. Highest reading of all, 77° at Algiers.

Wind at 8 a.m. showing a cyclonic circulation of moderate to strong winds around the mouths of the Bristol and St. George's Channels. Light variable winds prevailing over Italy and its neighbourhood, and light and anticyclonic over eastern Europe. Not much change later, but wind increasing to the force of a gale from South-West at Lisbon.

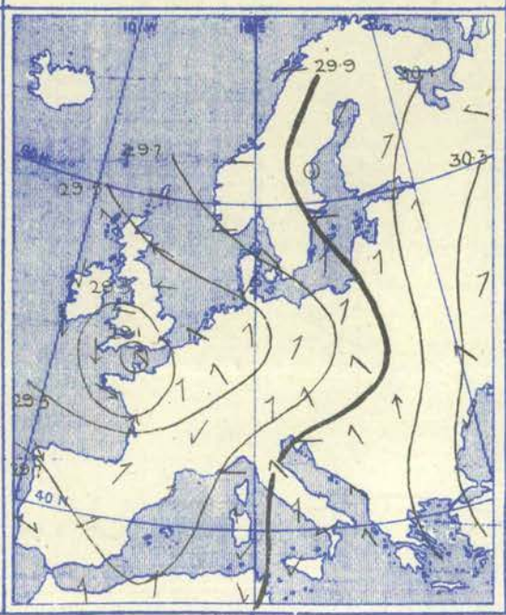
Barometer in morning ranging from above 30·3 ins. in the north of Russia and Finland to below 29·0 ins. in a depression having its centre off the south of Ireland. Gradients moderate to rather steep over the eastern half of our area. Disturbance off Ireland moving south-south-eastwards to the mouth of the English Channel by evening, but very little change occurring in the general distribution of pressure.

Wednesday, 3rd February, 1904.

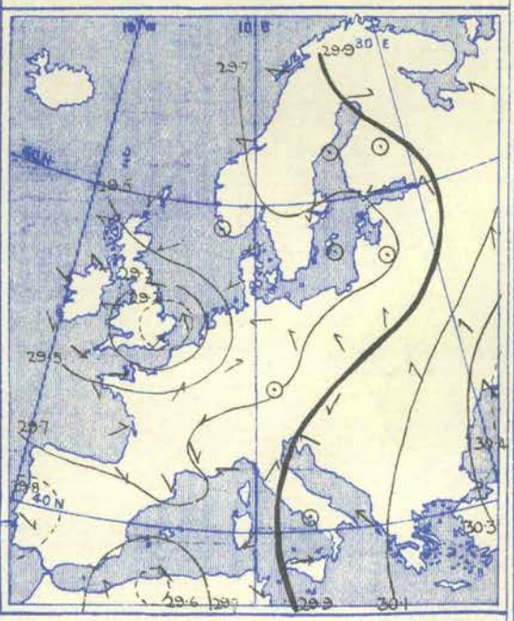
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull very generally, but fine and bright in southern Italy. Rainy or showery over the United Kingdom and at Corunna, and snow falling at Swinemünde, Copenhagen, and on the shores of the Gulf of Bothnia. Rain considerable or heavy during day at most of our own stations, and very heavy in the south-east of France—0·6 in. at Nottingham and Holyhead, 1·2 ins. at Liverpool, and 2·4 ins. at Lyons.

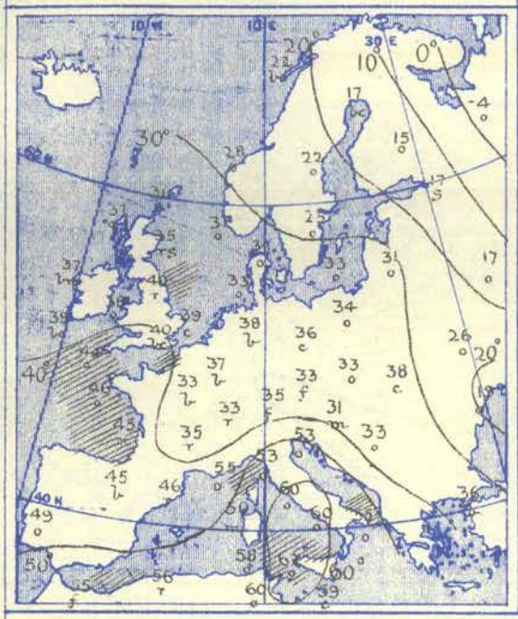
Temperature fallen in the extreme east and north, risen generally elsewhere, but fallen in Spain. Readings at 8 a.m. highest, 64° at Algiers, 59° at Palermo, 57° at Leghorn, 52° at Trieste, and 51° at Rochefort. Lowest, (1) −9° at Archangel, +10° at Kharkov, 15° at Kiev, and 17° at Odessa, (2) 21° at Bodö and Haparanda, (3) 39° at Madrid. Maxima during day, 49° at Jersey, above 50° in all the southern regions of Europe, above 60° in many parts of Italy, 72° at Palermo, and 77° at Algiers and La Calle.

Wind at 8 a.m. circulating cyclonically, with the force of a moderate to strong breeze, over our Islands and France. Light or moderate from the Southward over the more eastern regions of Europe, and Easterly at Archangel and Bodö. No general change later, but a separate cyclonic circulation setting in over Algeria.

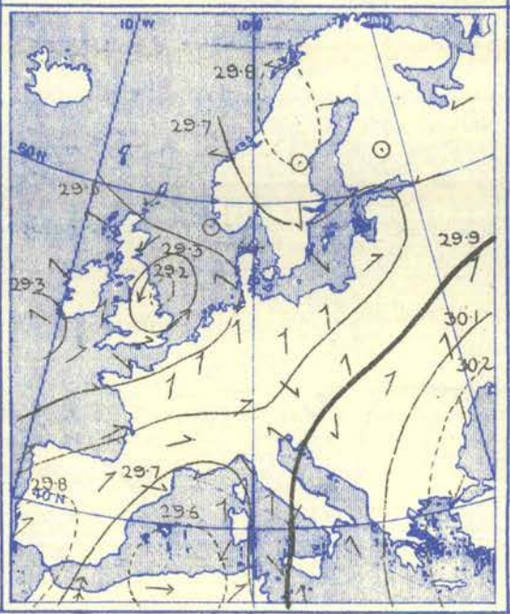
Barometer at 8 a.m. highest, 30·4 ins. and upwards over the Black Sea and the adjacent portion of Russia. Lowest, 29·1 ins. and less in a well-defined depression having its centre a little south-west of Portland Bill. Latter system travelling north-eastwards to the east of England by evening, and another depression appearing over Algeria. Pressure giving way over northern Europe and increasing over Spain, the west of France, and on our south-west coasts. No change within the region of highest pressure.

Thursday, 4th February, 1904.

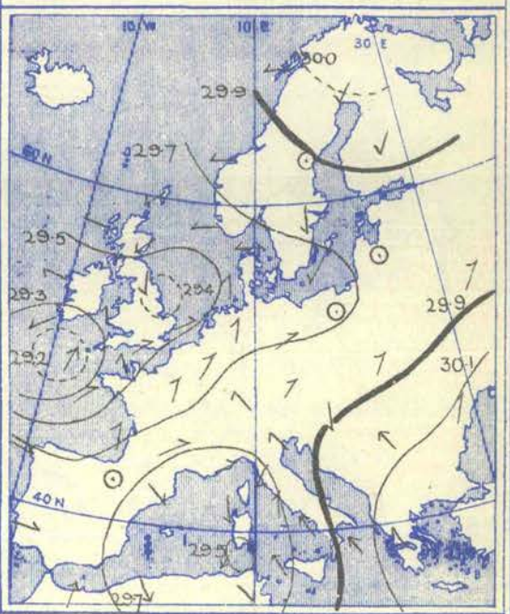
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in many parts of Ireland, the south of England, the Netherlands, and the north of Scandinavia. Cloudy or overcast over our area as a whole, with rain in the centre and north of England, sleet at Aberdeen; rain also falling at Oporto and at some Algerian and French stations, and snow or rain over the Gulf of Finland. Rain very general later in the western and southern countries. Not heavy in our Islands, but 1·0 in. at Lyons, 1·1 ins. at Aumale, as well as at Turin.

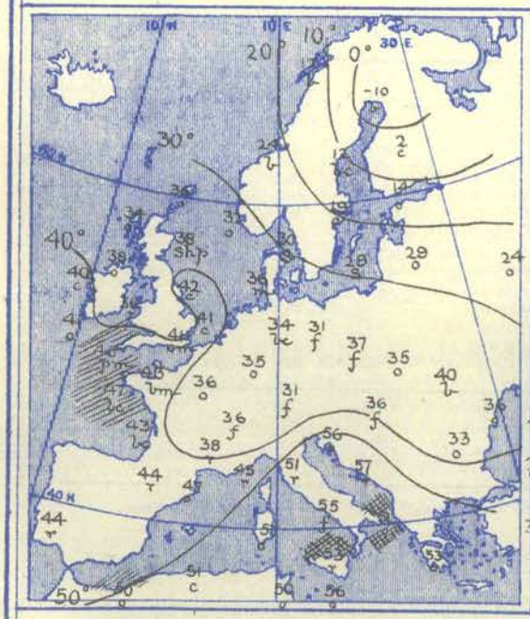
Temperature risen in Italy, the Riviera, south-eastern Europe, and Germany, fallen generally elsewhere. Morning readings ranging from 62° at Palermo, 60° at Rome and Naples, and 53° at Trieste, to below 40° at nearly all our own stations and central Europe, and 31° at Parsonstown and Munich, to 17° at Haparanda, St. Petersburg, and Moscow, to 9° at Kharkov, and to −4° at Archangel. Rising subsequently to nearly 50° on our south-west coasts, to 61° at Nice and Nemours, to 70° at La Calle, and to 73° at Palermo. Frost continuing all day in the north of Norway, Sweden, and Russia.

Wind at 8 a.m. still circulating cyclonically over our Islands and their neighbourhood and also over the Mediterranean. Fresh to strong breezes prevailing over the former region, and strong breezes to moderate gales in the latter. Light and anticyclonic both over the far north and east of Europe. A new cyclonic movement setting in later over the south-west of our Islands, but no other change of importance taking place.

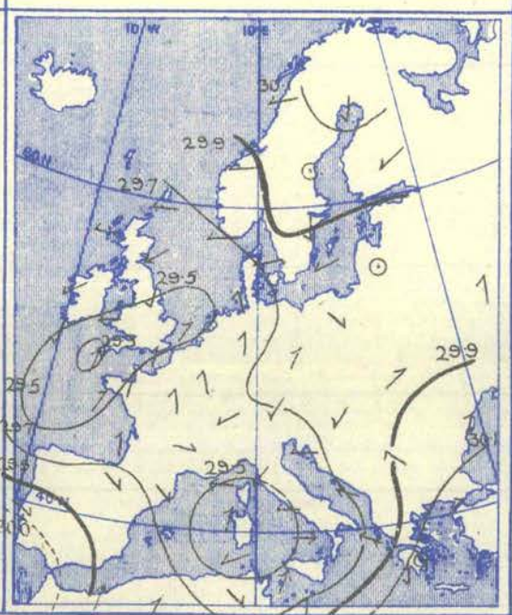
Barometer at 8 a.m. ranging from above 30·3 ins. in the south of Russia and from 29·8 ins. and upwards in two smaller anticyclones situated respectively over the Iberian Peninsula and the north of Scandinavia, to below 29·5 ins. in a depression over the western portion of the Mediterranean, to below 29·3 ins. in another system approaching our south-western coasts, and to below 29·2 ins. in a well-defined disturbance centred off the coast of Yorkshire. Very little change in the general distribution during day, but depression in south-west travelling eastwards to the south-west of England.

Friday, 5th February, 1904.

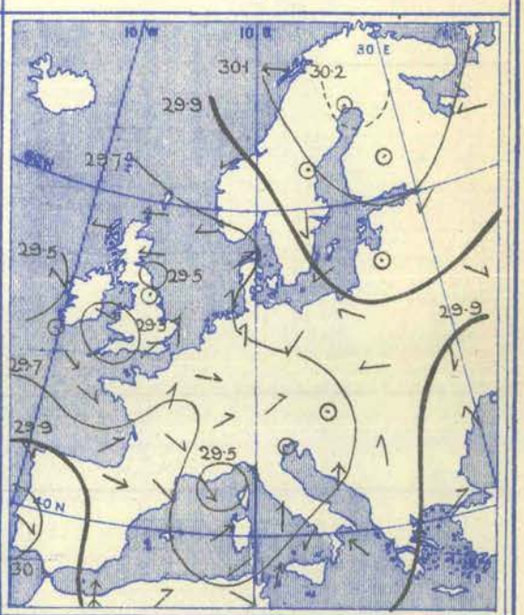
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast except over the northern half of Scandinavia. Rainy over our Islands, in various parts of the Spanish Peninsula, France, and Italy, snow falling in the south of Sweden and in the Skager Rack, and fog prevailing over central Europe and on the shores of the Baltic. Rain experienced in nearly all the more southern regions later, and snow or rain in the north—heaviest amount, 1·0 in. at Cape Sicié.

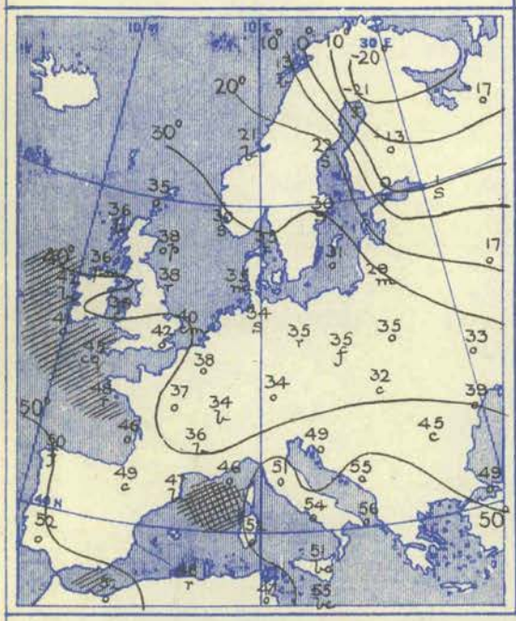
Temperature fallen generally except over the United Kingdom. Readings in morning ranging from 57° at Cagliari and Lésina, 56° at Trieste and Malta, and 53° at Athens, to below 40° over most parts of France, our Islands, and central Europe, to below 20° in the north of Europe, to 2° at Kuopio, and to −16° at Harparanda. Rising during day to 51° in London, to between 50° and 60° over the major portion of southern Europe, to 64° at Palermo, and to 72° at Nemours. Very severe frost all day over Russia and Scandinavia.

Wind at 8 a.m. showing two cyclonic circulations—one over the western half of the Mediterranean and the other over our Islands. Force only fresh with the latter system, but Southerly wind blowing a moderate gale at Palermo, and South-Easterly current a moderate to fresh gale on the shores of the Adriatic. Moderate Northerly to Easterly breezes prevailing over northern Europe. No great change later. Gales on the Adriatic subsiding.

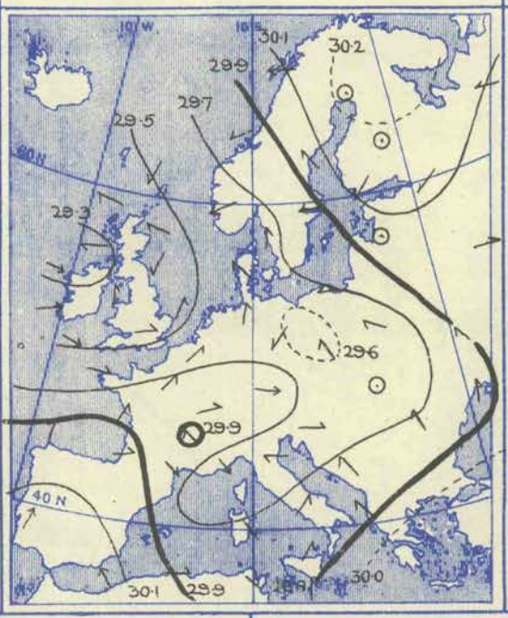
Barometer in morning ranging from above 30·1 ins. both over Finland and Asia Minor, and 30·0 ins. at Lisbon, to below 29·5 ins. in a large depression over Sardinia and Corsica, and to less than 29·3 ins. in another system lying over the Bristol Channel. Some change taking place in the form of the low pressure areas during day, but little change occurring in the general distribution of pressure. Another depression seen to be approaching Ireland by the evening.

Saturday, 6th February, 1904.

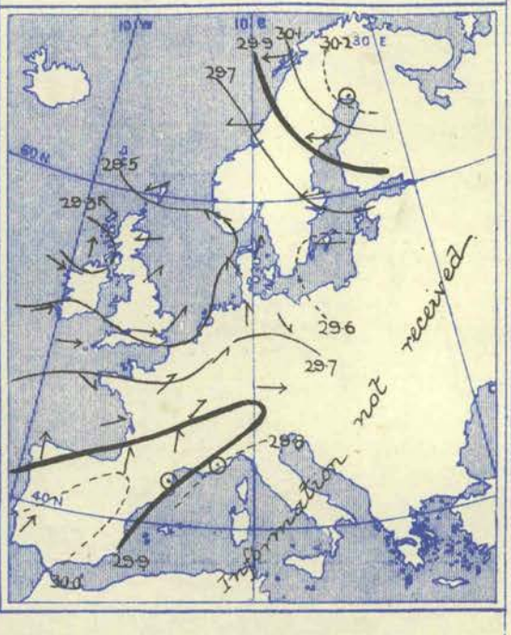
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather in morning fine in the north-west of Norway, but cloudy or overcast over our area generally. Rain falling in several parts of our Islands, at Skagen, Brest, Algiers, and at some stations in Italy and central Europe, and snow in Sweden and at St. Petersburg, as well as at the mouth of the Elbe. Rain falling later in all the western and north-western countries, and snow in Sweden. Largest amounts, 0·5 in. at Lisbon and 0·7 in. at Rochefort.

Temperature changed irregularly. Readings at 8 a.m. highest, 56° at Brindisi, 55° at Pesaro and Malta, and 52° at Nemours and Lisbon. Lowest (1) – 21° at Haparanda, – 17° at Archangel, +1° at St. Petersburg, and 17° at Moscow, (2) 30° at Nairn and 34° at Parsonstown, (3) 39° at Cape Sicié. Rising later to 51° at Jersey, to 55° or 56° in the extreme south of France, and to nearly 60° on the western coasts of the Spanish Peninsula. Remaining below zero all day in the north of Sweden.

Wind circulating cyclonically over our Islands, central Europe, and Italy. Light to moderate or fresh generally, but strong to a moderate gale at some of our western and south-western stations. Moderate to strong Easterly breezes prevailing over Scandinavia, and moderate or fresh Southerly winds in Portugal. Not much change later over the western half of our area, but some increase in force taking place over Portugal, the English Channel, and increasing to a fresh gale at Hernösand.

Barometer at 8 a.m. ranging from above 30·2 ins. in the north of Sweden, above 30·1 ins. in the south-west of Portugal, and above 30·0 ins. at Constantinople, to less than 29·6 ins. in a depression over Germany, and to less than 29·3 ins. in another system over Ireland. German depression moving northwards to the Baltic later, and Irish system also moving very slowly northwards. A secondary developing and travelling eastwards across England.

IV.—GENERAL NOTES, etc.

Barometric pressure was generally highest in the north-east of Europe, and was also relatively high in the most south-eastern and south-western countries. Nearly all the cyclonic systems appeared over the United Kingdom, over Italy and the western half of the Mediterranean. None of the depressions was of exceptional depth, but several were of sufficient importance to cause strong winds or slight gales. Most of those that visited our Islands followed a somewhat unusual track—at first moving south-eastwards towards Brittany, and then north-eastwards or northwards directly over the Kingdom, and finally either dispersing or becoming merged in the succeeding system. The range of temperature over our area was exceptionally large. The 8 a.m. readings in the far south were frequently some degrees higher than for several weeks past, while the maxima were occasionally but little below 80°. In the far north the thermometer became extremely low towards the end of the period; on Saturday the 8 a.m. value at Haparanda was as low as – 21°, thus giving a range of about 100°. Considerable or heavy rains were experienced in the neighbourhood of the cyclonic disturbances, and occasional snow or rain in the northern countries. By the end of the week a depression had developed over Germany, and rain was falling in several parts of central Europe. The largest quantities of rain occurred over the south-eastern departments of France, especially at Lyons, where 2·36 ins. on the 3rd was followed by 0·95 in. on the 4th.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 26.

STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNESS	7·6	– 3·6	14	– 6	SHEFFIELD	2·0	—	3	—	WESTBOURNE †	22·3†	+ 5·3	35†	+ 8
STRATHPEFFER SPA	0·7	– 11·9	1	– 21	WORKSOP	2·5	– 9·7	4	– 16	VENTNOR HOSPITAL †	19·1	+ 2·3	30	+ 4
EDINBURGH	5·6	– 6·0	9	– 10	THURCASTON	8·1	– 4·3	13	– 8	BOURNEMOUTH	18·0	—	28	—
COCKLE PARK	4·6	—	8	—	MARGATE	16·3	+ 1·5	26	+ 2	MARLBOROUGH	10·5	– 2·5	16	– 4
NEWCASTLE-ON-TYNE	0·0	—	0	—	BROADSTAIRS	17·3	—	27	—	SOUTHPORT	5·4	—	9	—
YORK	0·1	– 11·6	0	– 19	RAMSGATE	15·9	—	25	—	RHYL	13·4	—	22	—
SKEGNESS	6·5	—	11	—	EASTBOURNE	17·1	+ 0·8	27	+ 1	ABERDOVEY †	21·0†	—	33†	—
CROMER	4·7	—	8	—	BRIGHTON	19·8	+ 3·4	31	+ 5	TENBY	16·4	– 1·3	26	– 2
LOWESTOFT	7·3	—	12	—	WORTHING	19·9	—	31	—	TORQUAY	14·4	– 2·1	23	– 3
DUNMOW	11·2	—	18	—	BOGNOR †	26·6†	—	42†	—	NEWQUAY †	12·5	– 4·6	20	– 7
										GUERNSEY †	23·3†	+ 4·8	36†	+ 7

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values below must be substituted for those which have already appeared.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Twenty-Seventh Year, No. 1 p. 2	Shrewsbury	54	—	46·2	—	40·5	+ 1·8	12	—	—	—	—	—	—	—	—
" " " No. 2 p. 8	Cirencester	—	—	47·0	—	40·4	+ 2·9	14	36	—	—	—	—	—	—	—
" " " No. 3 p. 14	Kilkenny	52	—	46·3	—	41·8	+ 0·9	12	22	—	—	—	—	—	—	—
" " " " "	Newton Rigg	—	—	—	—	—	—	—	—	—	—	—	10·1	—	18	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 6. SIXTH WEEK, ENDING SATURDAY FEBRUARY 13TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 32.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	47	20	40·5	31·7	36·1	2 below	0	− 7	41	+ 5	33	− 6	180	− 37
	1. SCOTLAND, EAST	50	11	39·9	29·4	34·6	3 below	0	− 9	52	+11	22	− 24	228	− 24
	2. ENGLAND, N.E.	49	29	43·7	33·9	38·8	0 (average)	5	− 5	30	− 4	30	− 19	181	− 37
	3. ENGLAND, EAST	51	29	46·1	35·3	40·7	2 above	11	0	26	−12	33	− 20	176	− 66
	4. MIDLAND COUNTIES	52	29	44·3	34·0	39·2	1 above	6	− 7	30	− 7	38	− 25	195	− 51
	5. ENGLAND, SOUTH	52	31	47·0	37·4	42·2	2 above	21	+ 6	13	−15	57	− 20	139	− 49
Principal Grazing Districts.	6. SCOTLAND, WEST	48	23	43·3	34·1	38·7	1 below	4	− 6	29	0	44	− 15	134	− 45
	7. ENGLAND, N.W.	52	26	43·5	34·3	38·9	1 below	4	− 7	28	0	37	− 23	155	− 22
	8. ENGLAND, S.W.	52	29	47·2	37·8	42·5	1 above	21	+ 3	12	−10	110	+ 13	90	− 47
	9. IRELAND, NORTH	51	24	42·5	32·8	37·7	3 below	1	−14	33	+ 8	43	− 40	151	− 6
	10. IRELAND, SOUTH	52	29	45·8	34·6	40·2	2 below	11	−11	29	+11	104	− 21	104	− 14
	— CHANNEL ISLANDS	52	34	50·0	41·4	45·7	1 above	28	+ 3	2	− 7	143	− 1	17	− 44

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 32.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	14	3 more	31	+ 2	7·3	+ 0·1	6	− 7	9	−11	27	− 23	8	− 7
	1. SCOTLAND, EAST	5	8	2 more	28	+ 5	4·3	+ 0·7	9	− 7	14	−12	41	− 29	12	− 9
	2. ENGLAND, N.E.	5	7	2 more	26	+ 4	3·3	+ 0·8	15	0	23	0	54	− 19	16	− 6
	3. ENGLAND, EAST	6	12	8 more	30	+ 7	3·8	+ 1·3	15	− 4	23	− 6	68	− 11	19	− 3
	4. MIDLAND COUNTIES	6	15	10 more	33	+11	5·2	+ 2·2	10	− 7	15	−10	48	− 20	14	− 6
	5. ENGLAND, SOUTH	7	17	12 more	35	+13	6·6	+ 3·2	13	− 4	19	− 6	64	− 12	18	− 3
Principal Grazing Districts.	6. SCOTLAND, WEST	5	13	2 more	30	+ 4	6·8	− 0·1	8	− 8	12	−12	39	− 26	11	− 8
	7. ENGLAND, N.W.	5	11	5 more	31	+ 7	5·5	+ 1·5	9	− 5	14	− 7	50	− 15	14	− 4
	8. ENGLAND, S.W.	7	25	18 more	34	+ 8	8·1	+ 3·1	8	−10	12	−15	61	− 23	17	− 6
	9. IRELAND, NORTH	5	11	4 more	33	+ 5	5·6	+ 1·3	5	−10	8	−16	39	− 32	11	− 9
	10. IRELAND, SOUTH	7	18	9 more	34	+ 7	7·1	+ 1·6	12	− 5	19	− 7	62	− 22	18	− 6
	— CHANNEL ISLANDS	7	21	14 more	38	+11	8·7	+ 4·3	12	−10	18	−14	76	− 22	20	− 6

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather was again rough, wet, and unsettled over the whole Kingdom, the rain being heaviest and most frequent in the south and south-west. A thunderstorm was experienced at Scilly on Monday, and at several Irish and English stations towards the close of the week, while at others lightning singly was observed.

Temperature varied considerably in the different districts; in Scotland, England N.W., and over Ireland it was below the mean, and in England N.E. just equal to it, while in all other English districts it was above the normal. The highest of the maxima, and also the lowest of the minima, were, with few exceptions, recorded during the latter half of the period. The former varied from 52° in many western and southern localities to 47° in Scotland N., and the latter from 11° in Scotland E. (at Braemar), 20° in Scotland N., and 23° and 24° respectively in Scotland W. and Ireland N., to 31° in England S. and 34° in the Channel Isles.

Rainfall exceeded the mean in all parts of the Kingdom. In Scotland and the north-east of England the excess was small, but over the major portion of England the fall was three times the normal amount.

Bright Sunshine. In England N.E., where the percentage of the possible was 23, the mean duration was just equalled, but in all other districts there was a deficiency. In Scotland N. the percentage was only 9, and in Ireland N. no more than 8.

Barometer and Wind. Cyclonic disturbances—mostly of considerable size and depth—passed eastwards or north-eastwards over our Islands from the Atlantic, the barometer being relatively high both to the northward and southward of the United Kingdom. The general direction of the wind was therefore Easterly in the north, and Southerly to Westerly in the more southern districts. The latter current was mostly fresh or strong, and occasionally increased to the force of a gale. By Friday the distribution of pressure had become somewhat modified. The centre of an unusually deep disturbance appeared very suddenly off Ireland during the early hours of the morning, and subsequently moved slowly north-eastwards. This disturbance was attended by fresh or strong gales from between South and West in England and Ireland, and from the Southward or South-Eastward in Scotland. At the end of the week it lay off our extreme north-western coasts, and gradients were very steep over our Islands and western Europe generally.

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II.—DATA from which the SUMMARY on page 31 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	44	29	39·1	31·9	35·5	− 2·9	0	46	6	1·06	+ 0·29	*	*	*	*
	Stornoway	45	30	41·7	33·0	37·4	− 1·7	0	32	5	1·28	+ 0·31	4·7	− 9·8	8	− 16
	Wick	45	33	43·1	35·7	39·4	+ 1·6	3	23	7	0·74	+ 0·22	*	*	*	*
	Lairg Ⓢ	47	20	39·1	28·3	33·7	− 1·8	0	58	3	1·59	+ 0·84	*	*	*	*
	Glencarron Ⓢ	45	22	38·3	28·5	33·4	− 3·6	0	60	4	1·16	− 0·60	*	*	*	*
	Fort Augustus Ⓢ	43	22	40·5	31·2	35·9	− 2·4	0	43	4	1·37	+ 0·41	8·2	− 1·5	13	− 2
	Fort William	46	28	41·7	33·6	37·7	− 1·2	0	30	5	2·23	+ 0·33	1·1	− 11·2	2	− 18
1. SCOTLAND, E.	Nairn	46	22	38·7	26·9	32·8	− 4·9	0	64	6	0·70	+ 0·31	*	*	*	*
	Aberdeen	46	30	41·1	33·6	37·4	− 0·7	0	32	6	1·35	+ 0·80	2·6	− 15·4	4	− 25
	Braemar Ⓢ	39	11	34·2	20·8	27·5	− 7·1	0	102	5	0·60	− 0·08	*	*	*	*
	Ochtertyre Ⓢ	45	27	41·7	30·4	36·1	− 1·6	0	41	6	1·70	+ 0·80	*	*	*	*
	Leith	50	30	43·4	32·9	38·2	− 1·5	4	33	4	0·20	− 0·17	*	*	*	*
	Marchmont Ⓢ	44	29	40·0	31·6	35·8	− 1·5	0	43	3	0·32	− 0·27	12·9	− 3·3	21	− 5
2. ENGLAND, N.E.	Alnwick Castle	48	29	42·7	32·7	37·7	− 0·6	2	33	5	0·63	+ 0·09	*	*	*	*
	Durham	47	29	42·9	32·0	37·5	− 0·3	3	36	5	0·56	+ 0·16	18·0	+ 2·0	28	+ 3
	Shields	49	33	44·0	34·4	39·2	+ 0·1	6	28	6	0·45	+ 0·08	*	*	*	*
	Scarborough Ⓜ	49	33	44·3	35·2	39·8	+ 0·8	6	26	6	0·70	+ 0·27	14·0	—	22	—
	Spurn Head	49	33	44·1	34·9	39·5	+ 0·8	6	26	5	0·55	+ 0·21	*	*	*	*
	Lincoln	49	32	44·3	34·0	39·2	+ 0·7	6	30	4	0·79	+ 0·39	*	*	*	*
	Fulbeck (Lincolnshire)	—	33	—	36·4	—	—	—	—	?5	0·87	+ 0·49	17·3	—	26	—
3. ENGLAND, E.	Hillington Ⓜ	50	29	44·9	34·0	39·5	+ 1·2	8	30	5	1·38	+ 0·94	12·1	− 5·2	18	− 8
	Yarmouth	49	33	44·9	34·9	39·9	+ 1·7	8	27	6	1·15	+ 0·72	*	*	*	*
	Geldeston	51	32	47·2	35·2	41·2	+ 2·3	15	27	7	1·25	+ 0·88	16·4	− 1·4	25	− 2
	Cambridge	51	30	47·0	35·0	41·0	+ 2·3	14	28	5	1·20	+ 0·87	14·7	− 2·7	22	− 4
	Felixstowe	49	32	45·2	35·9	40·6	+ 1·7	9	24	5	0·97	—	23·2†	—	35†	—
	Clacton-on-Sea	49	29	46·1	35·4	40·8	+ 1·5	11	26	5	0·81	—	27·8	—	42	—
	Rothamsted	50	31	45·9	34·2	40·1	+ 1·9	11	30	7	1·94	+ 1·44	10·5	− 5·7	16	− 9
	Shoeburyness	49	35	47·6	37·7	42·7	+ 3·4	23	12	4	0·73	+ 0·42	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	48	30	42·8	33·1	38·0	+ 0·4	2	32	6	1·38	+ 0·76	15·5	—	24	—
	Bawtry (Hesley Hall)	49	29	44·0	32·9	38·5	− 0·2	6	34	5	0·73	+ 0·34	*	*	*	*
	Nottingham	50	32	44·3	33·4	38·9	+ 0·1	6	32	6	0·84	+ 0·42	10·9	—	17	—
	Colly Weston (Stamford)	52	31	45·3	33·3	39·3	+ 0·8	9	33	7	1·20	+ 0·76	*	*	*	*
	Cheadle Ⓜ	47	31	42·5	33·0	37·8	+ 0·3	1	32	6	1·21	+ 0·64	*	*	*	*
	Birmingham (Edgbaston)	49	33	43·6	34·6	39·1	+ 0·3	4	27	6	1·48	+ 1·03	7·1	—	11	—
	Shrewsbury	50	33	44·5	36·2	40·4	+ 0·4	7	22	6	1·10	—	*	*	*	*
	Hereford Ⓜ	49	32	44·6	34·9	39·8	+ 0·3	7	27	7	2·37	+ 1·86	*	*	*	*
	Cirencester	51	29	45·9	32·7	39·3	+ 0·9	11	35	7	3·02	+ 2·42	6·7	− 10·9	10	− 16
	Oxford	50	34	45·9	35·6	40·8	+ 1·4	11	25	6	1·83	+ 1·40	8·0	− 8·0	12	− 12
5. ENGLAND, S.	London	51	32	47·7	35·4	41·6	+ 1·4	16	27	6	1·24	+ 0·82	11·7‡	+ 2·3‡	18‡	+ 4‡
	Swarraton (Alresford) Ⓜ	49	31	46·5	34·6	40·6	+ 2·0	13	29	6	1·92	+ 1·27	*	*	*	*
	Tunbridge Wells Ⓜ	48	33	45·8	35·4	40·6	+ 2·6	11	26	6	2·31	—	14·8	—	22	—
	Dungeness	50	32	47·3	38·4	42·9	+ 2·9	21	10	6	1·02	+ 0·68	14·3	—	21	—
	Hastings (St. Leonards)	48	34	46·6	38·0	42·3	+ 2·2	19	11	7	1·68	+ 1·16	11·8	− 8·0	18	− 12
	Southampton	52	33	48·9	38·5	43·7	+ 2·9	27	10	7	1·96	+ 1·34	13·2	− 4·8	20	− 7
	Portland Bill	49	41	47·9	42·3	45·1	+ 2·6	22	0	7	1·76	—	*	*	*	*
	Shaftesbury Ⓜ	48	33	45·1	36·2	40·7	+ 2·0	9	23	7	1·84	+ 1·18	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	48	30	42·6	34·9	38·8	− 1·0	2	26	5	2·89	+ 1·22	*	*	*	*
	Glasgow	46	30	41·4	34·7	38·1	− 0·9	0	27	4	0·28	− 0·50	1·4	− 9·0	2	− 14
	Cally Ⓢ	48	23	44·8	32·9	38·9	+ 0·1	8	34	6	1·55	+ 0·55	*	*	*	*
	Aspatria	48	27	43·0	33·2	38·1	− 0·6	3	32	3	0·67	—	11·0	—	17	—
	Douglas (Isle of Man)	48	29	44·7	34·6	39·7	− 1·1	8	28	7	0·98	+ 0·14	10·5	− 6·2	16	− 10
7. ENGLAND, N.W.	Newton Rigg	46	26	41·4	31·0	36·2	− 0·5	0	41	3	1·72	—	6·6	—	10	—
	Stonyhurst	47	31	42·0	34·7	38·4	− 0·2	0	25	6	1·00	+ 0·14	10·2	− 3·8	16	− 6
	Blackpool Ⓜ	47	28	43·4	33·5	38·5	− 0·7	4	31	7	0·87	+ 0·30	10·5	− 4·2	16	− 6
	Manchester (Prestwich)	47	31	42·5	33·4	38·0	− 0·8	1	31	6	0·91	+ 0·34	3·6	—	6	—
	Liverpool Obsy. (Bidston)	48	32	43·3	34·9	39·1	− 0·7	4	26	5	0·72	+ 0·28	13·5	—	21	—
	Chester (Hawarden Bridge)	50	30	44·6	34·2	39·4	− 1·3	7	29	5	1·05	—	*	*	*	*
	Llandudno Ⓜ	50	33	45·1	35·6	40·4	− 1·3	9	25	6	1·06	+ 0·52	11·1	− 5·7	17	− 9
	Holyhead	48	36	44·4	37·1	40·8	− 0·9	7	19	4	0·67	+ 0·04	*	*	*	*
	Bettws-y-Coed	52	31	45·0	34·0	39·5	− 2·2	8	30	6	2·01	—	8·8	—	13	—
8. ENGLAND, S.W.	Pembroke	50	38	46·1	40·7	43·4	+ 1·0	15	4	7	2·40	+ 1·72	6·9	− 11·4	10	− 17
	Clifton	51	35	46·4	38·0	42·2	+ 1·5	18	11	6	2·53	+ 1·87	*	*	*	*
	Bath	52	30	47·4	35·4	41·4	+ 0·2	15	27	7	1·83	+ 1·24	7·6	—	11	—
	Arlington (N. Devon)	50	33	45·7	35·7	40·7	+ 0·1	10	25	7	3·08	+ 2·05	*	*	*	*
	Cullompton Ⓜ	50	29	47·9	36·0	42·0	+ 1·1	17	17	7	2·26	+ 1·53	7·8	− 8·2	12	− 12
	Falmouth	51	37	48·2	39·5	43·9	+ 0·2	24	7	7	2·82	+ 1·84	11·5	− 8·3	17	− 12
	Plymouth	51	32	48·8	39·2	44·0	+ 1·3	26	8	7	2·84	+ 2·09	7·9	− 10·5	12	− 16
9. IRELAND, N.	Malin Head	46	31	42·6	33·3	38·0	− 3·7	2	31	5	0·35	− 0·17	*	*	*	*
	Edenfel (Omagh)	46	24	40·1	29·6	34·9	− 4·0	0	50	4	1·85	+ 1·21	*	*	*	*
	Blacksod Point	51	36	45·3	38·0	41·7	− 1·2	9	17	7	1·26	+ 0·33	*	*	*	*
	Markree Castle	47	24	41·2	31·3	36·3	− 4·1	0	40	6	1·42	+ 0·68	5·2	− 10·1	8	− 16
	Armagh	48	26	41·5	32·4	37·0	− 2·9	0	35	4	0·89	+ 0·34	5·4	− 10·0	8	− 15
	Donaghadee	48	26	44·0	32·1	38·1	− 2·9	6	36	5	0·60	+ 0·03	*	*	*	*
10. IRELAND, S.	Dublin	52	33	45·2	34·8	40·0	− 2·3	9	27	4	0·84	+ 0·34	12·2	− 5·1	19	− 8
	Birr Castle	52	29	44·4	31·6	38·0	− 2·7	7	38	7	1·58	+ 1·03	13·1	− 3·2	20	− 5
	Kilkenny	51	30	44·9	32·9	38·9	− 2·8	8	34	7	1·96	+ 1·32	*	*	*	*
	Waterford	52	30	45·3	34·6	40·0	− 1·9	9	29	6	1·93	+ 1·08	*	*	*	*
	Roche's Point	50	34	46·3	38·0	42·2	− 1·5	18	11	7	2·00	+ 0·97	*	*	*	*
	Valencia	52	32	47·1	35·9	41·5	− 3·2	14	25	7	2·32	+ 1·06	11·5	− 6·0	17	− 9
	Killarney	50	33	46·7	35·2	41·0	− 2·3	13	27	7	1·76	+ 0·49	*	*	*	*
	Foynes	52	30	46·4	34·1	40·3	− 2·4	12	31	7	1·90	+ 1·14	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	42	50·0	42·7	46·4	+ 0·8	31	0	7	2·29	+ 1·62	12·7	− 8·3	19	− 12
	Jersey	52	34	49·9	40·1	45·0	+ 1·8	29	5	7	1·88	+ 1·26	9·0	− 13·5	13	− 20

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

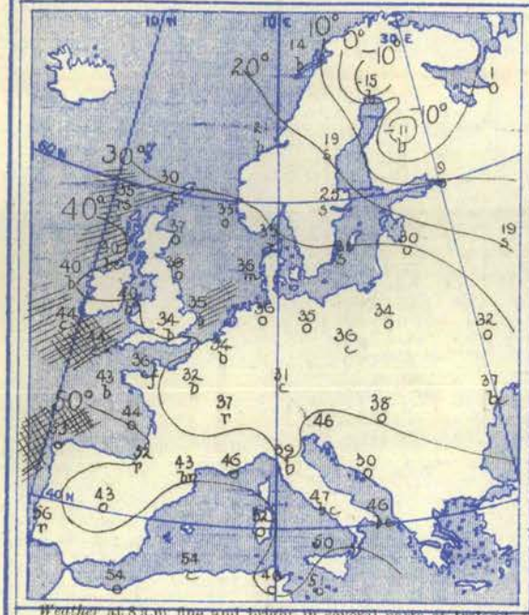
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

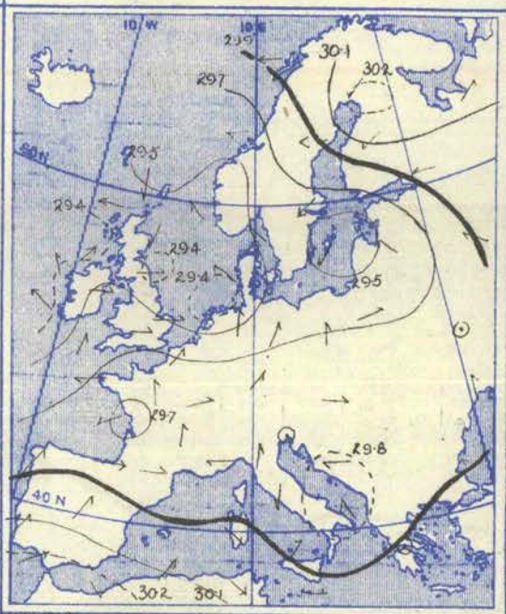
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 7th February, 1904.

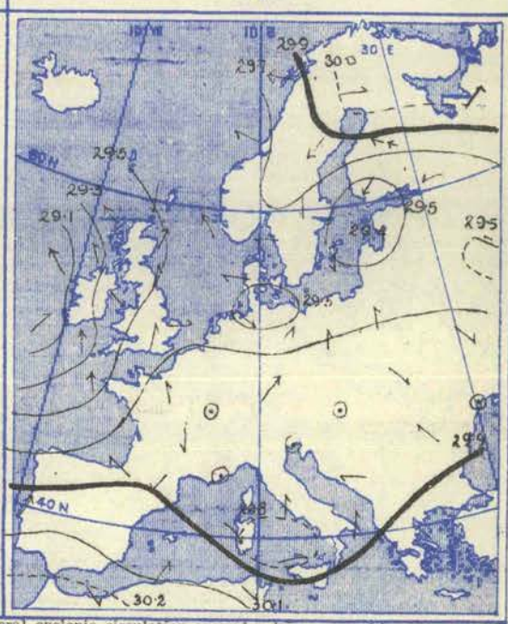
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in several parts of Ireland, England, France, Italy, and in the northern parts of Scandinavia and Finland. Snow falling on the shores of the Gulfs of Bothnia and Finland and at Moscow, and snow or sleet at Nairn and Stornoway. Rainy in the Skager Rack, at Belfort, Biarritz, and the south-west of Spain and Portugal, and showery at Malin Head. A considerable amount of precipitation taking place later both over our Islands and the Continent—heaviest falls, 0·98 in. at Lisbon, 0·83 in. at Lorient, and 0·67 in. at Helsingfors.

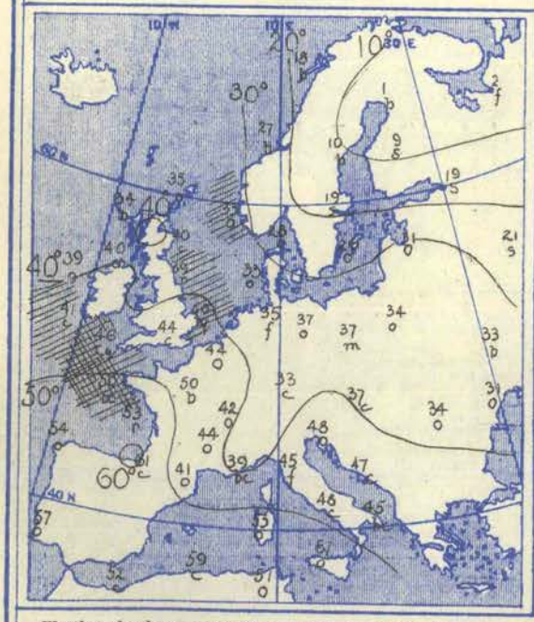
Temperature fallen except over the northern countries. Readings in morning highest, 59° at Patras, 57° at San Fernando, 56° at Lisbon, and 50° at Lesina. Lowest, (1) −15° at Haparanda, +1° at Archangel, 9° at St. Petersburg, and 19° at Moscow, (2) 30° at Sumburgh Head, 32° at Bath, and 33° at Parsonstown, (3) 31° at Munich and 32° at Paris. Rising later to nearly 50° on our south and south-west coasts, to between 50° and 60° over the southern parts of the Continent. Highest value, 64° at Nemours. Extremely severe frost continuing all day in the far north and north-east.

Wind at 8 a.m. showing a general cyclonic circulation around a large area of low pressure, extending from the Atlantic across our Islands to the Baltic, and several complete or partial cyclonic movements within the main low pressure region. Other cyclonic circulations prevailing over the west of France and the Adriatic. Not much strength as a whole, but Easterly wind strong over northern Europe and at Stornoway, and South-Westerly wind blowing a moderate gale at Malin Head. Wind backing to South over our Islands later and increasing greatly in force.

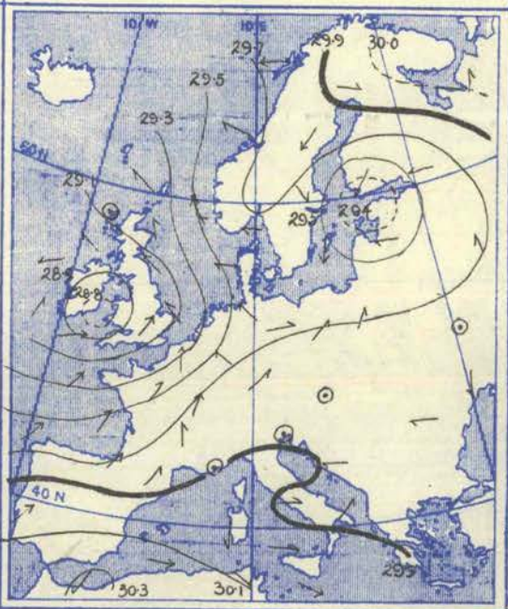
Barometer in morning highest, 30·2 ins. and upwards in the north of Finland and also in the south of Spain and Morocco. Lowest, 29·4 ins. and less off our west coasts and in other minima either over the North Sea or the Balt[illegible] Relatively low, 29·66 ins. at Rochefort and 29·79 ins. at Brindisi. Barometer falling quickly during day on our south-west coasts and gradients becoming steep over the Bay of Biscay and in the south-west generally. Northern minima moving eastward or north-eastward, and a disturbance appearing between the Islands of Sardinia and Sicily.

Monday, 8th February, 1904.

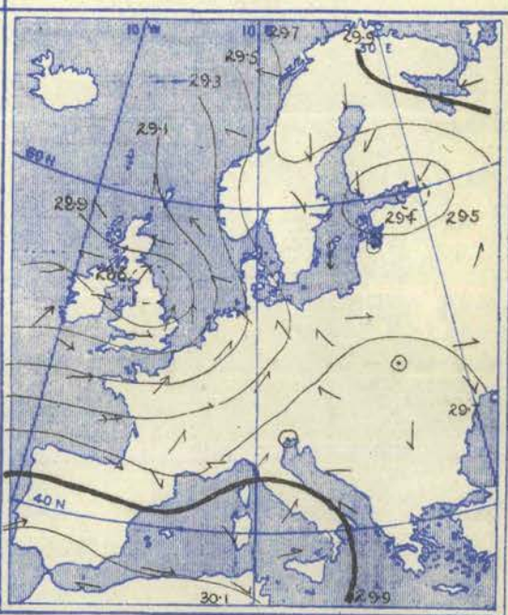
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather cloudy or overcast at 8 a.m. in nearly all regions, but fine and bright at a few Scandinavian stations. Very unsettled and rough over the western countries, with rain in many places and a thunderstorm at Limoges, snow falling over Finland and the Baltic. Rain or snow occurring very generally during day except over Scandinavia, Austria-Hungary, Italy, and Algeria—heaviest rain in France. Thunderstorms experienced at Scilly and at several French stations.

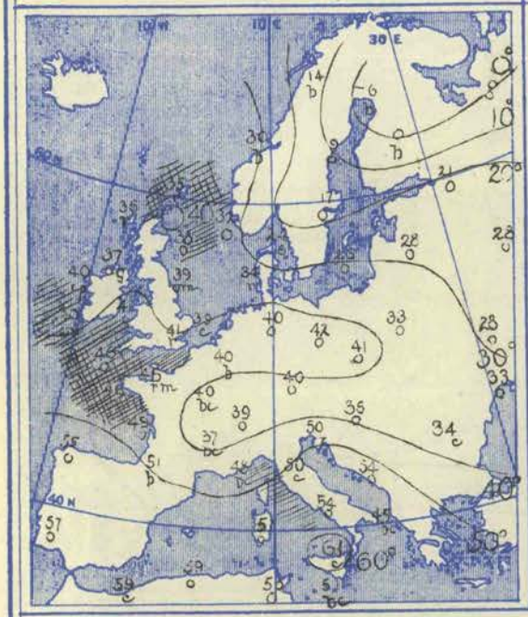
Temperature risen in most regions. Morning readings highest, 61° at Biarritz, 60° at Oran, 57° at Lisbon, La Calle and Malta, 50° at Paris and Le Mans. Lowest, (1) between 1° and 10° in the extreme north-east of Europe, (2) 26° at Nairn, (3) 34° at Turin. Rising subsequently to 51° in London, 64° at Biarritz and Palermo, to 72° at Nemours, and to 75° at Algiers. Very severe frost continuing throughout the day over Scandinavia and Russia; maxima in the northern half of Sweden below 15°.

Wind at 8 a.m. circulating cyclonically with the force of a strong breeze to a gale around the St. George's Channel, and with almost equal force around the Gulf of Riga. Mainly Westerly—strong in places—over the Mediterranean and southern Europe. Both cyclonic circulations becoming transferred further to the eastward by evening. Little other change.

Barometer at 8 a.m. ranging from above 30·2 ins. on the north-west coast of Africa and from 30·0 ins. at Archangel, to below 29·4 ins. in a depression over the Gulf of Riga and its vicinity, and to less than 28·8 ins. in a disturbance centred over the St. George's Channel. Gradients steep or rather so except in the most eastern and south-eastern regions. Both baric minima travelling east-north-eastwards during day, but no general change taking place in the distribution of pressure.

Tuesday, 9th February, 1904.

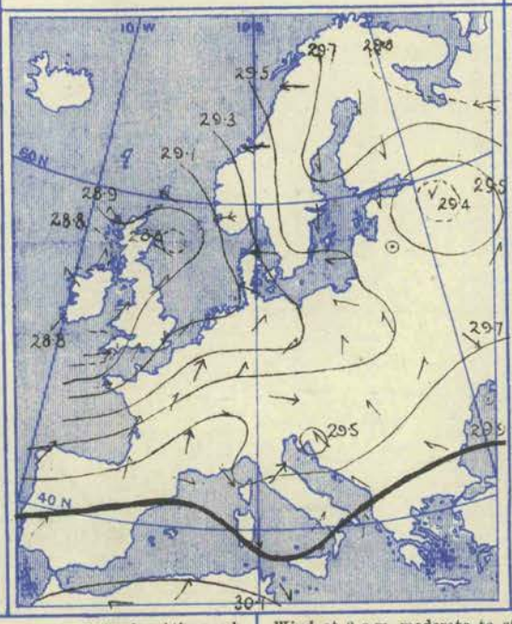
Temperature and Weather. 8 a.m.

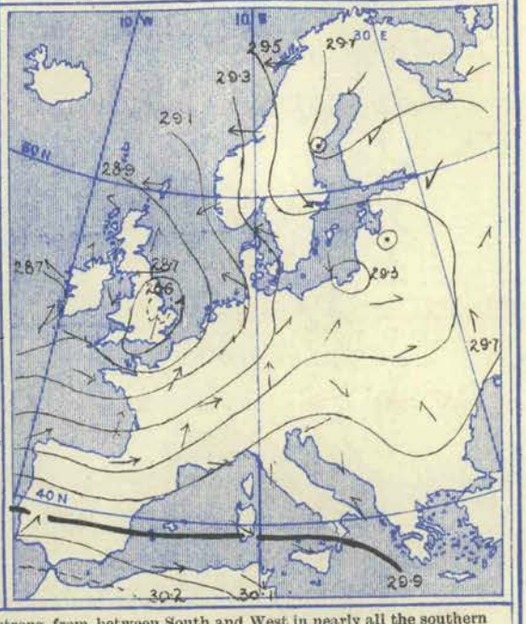


Weather at 8 a.m. fine and bright at a few scattered stations and also over Finland and the north of Scandinavia, but cloudy or dull over our area as a whole. Rainy in several parts of our Islands, Brittany, and Denmark, as well as at Trieste. Rain becoming very general later in all the more southern countries, and some snow falling in the north. Heaviest rain, 2·1 ins. at Besançon, 1·0 in. at Nantes and Cape Gris Nez, and 0·75 in. at Oxford.

Temperature changed irregularly, fallen over France and Finland, risen over Italy and central Europe. Morning readings highest, 61° at Palermo, 59° at Algiers and Nemours, 57° at Lisbon, and 54° at Leghorn. Lowest, (1) −6° at Haparanda, zero at Archangel, 14° at Bodö, 21° at St. Petersburg, (2) 31° at Parsonstown, 35° at Donaghadee and Nairn, (3) 36° at Turin and 37° at Lyons. Thermometer remaining much below freezing point all day in the north and north-east of Europe, but exceeding 45° over the greater part of our area, and 53° in most southern localities. Highest maxima, 65° at Palermo, 66° at Algiers and Tunis, and 68° at Sfax.

Barometer and Wind. 8 a.m. and 6 p.m.



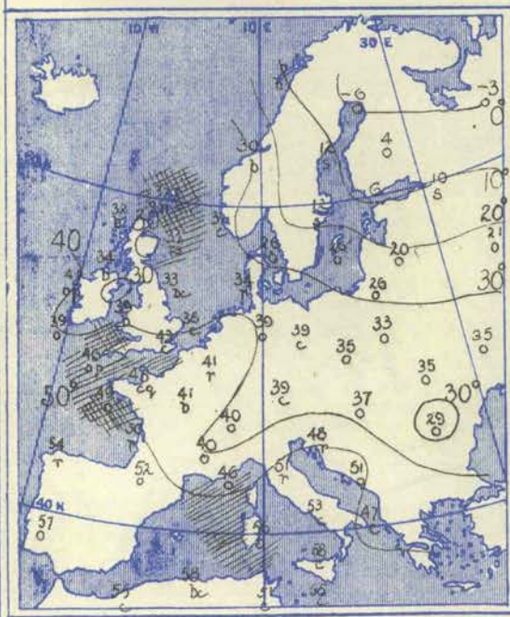


Wind at 8 a.m. moderate to strong from between South and West in nearly all the southern regions and moderate to strong from between North and East in the north. Partial or complete cyclonic circulations prevailing over the countries intervening, the Southerly wind blowing a moderate gale at Wick, and that from South-West with like force on our southern coasts and in Portugal. Veering towards West and increasing to a fresh gale later over the Channel and the west and north of France, and Easterly wind increasing to a strong gale at Skudesnaes.

Barometer at 8 a.m. highest, 30·0 ins. to 30·1 ins. over the extreme south of our area, and above 29·8 ins. over the White Sea. Lowest, 28·8 ins. and less in depressions off our south-west coasts and the north-east of Scotland, and below 29·0 ins. over the major portion of our Islands and the adjacent part of the Atlantic. Relatively low in a large and irregularly shaped area, with a plurality of minima, extending eastwards to Moscow, and southwards to the neighbourhood of Venice. No great change in the general distribution during day; depression off our south-west coasts travelling east-north-eastwards.

Wednesday, 10th February, 1904.

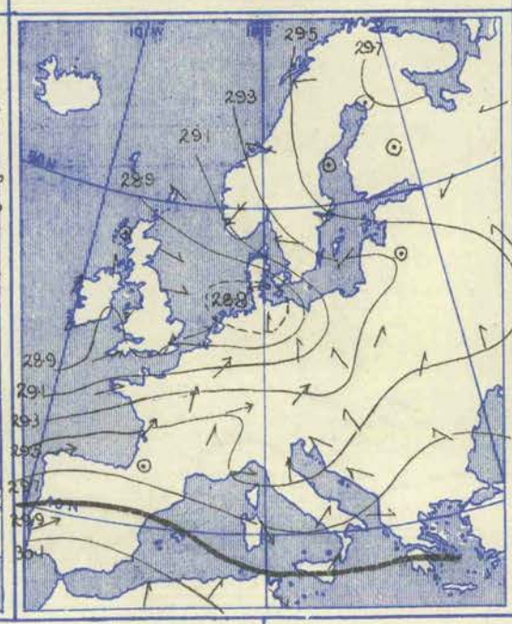
Temperature and Weather. 8 a.m.

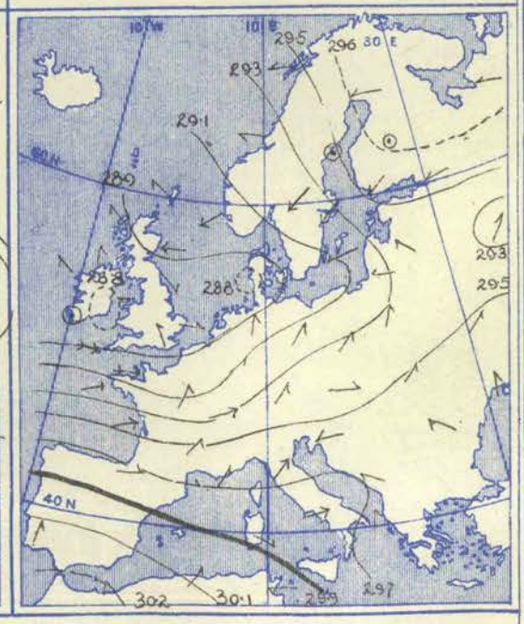


Weather at 8 a.m. dull and rainy in many parts of the United Kingdom, France, Portugal, and the north of Italy. Overcast in nearly all other regions, with snow at St. Petersburg and in Sweden, and rain or snow in Denmark. Remaining dry all day in Algeria, but a considerable amount of precipitation experienced over Europe—most in the west and north-west—about 0·5 in. at some of our own southern stations, and 1·1 ins. at Bordeaux.

Temperature changed irregularly. Morning values highest, 58° at Palermo and Algiers, 57° at Lisbon, and above 50° in the south generally. Lowest, (1) −6° at Haparanda, −3° at Archangel, +4° at Kuopio, 7° at Bodö, 12° at Stockholm, and 21° at Moscow, (2) 25° at Nairn, 31° at Parsonstown, and 35° at Nottingham, (3) 29° at Hermanstadt. Maxima during day less than 40° at Parsonstown and at some Scotch stations, but 52° at Scilly and Jersey, 62° at Biarritz, 67° at Perpignan, 72° at Barcelona and Algiers, and 73° at Nemours. Severe frost continuing over the north and north-east of Europe.

Barometer and Wind. 8 a.m. and 6 p.m.



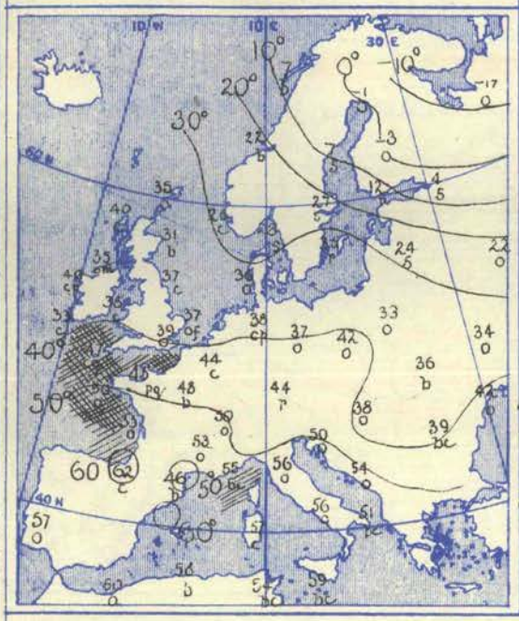


Wind at 8 a.m. showing a very extensive and general cyclonic circulation around the North Sea, the South-Westerly and Westerly currents to the Southward being fresh or strong, with a gale in places, and the Easterly and North-Easterly current strong to a gale over Denmark and the south of Scandinavia. No very material change later except some decrease in force over Denmark, an increase in force of the Westerly gale on our southern and south-western coasts, and the development of a separate cyclonic movement over our western districts.

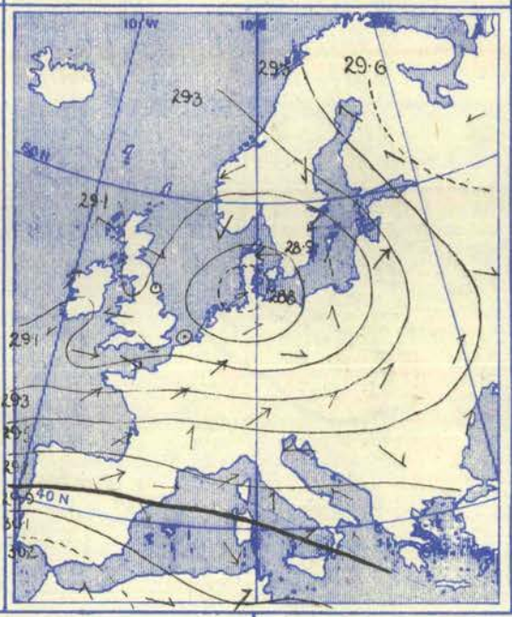
Barometer in morning ranging from above 30·1 ins. over Morocco and the west of Algeria, and above 29·6 ins. in Finland to 28·8 ins. and less in a disturbance centred over the North Sea. Pressure below 28·9 ins. over the major portion of the United Kingdom. Depression travelling to Denmark by evening, but another minimum appearing over Ireland from the Atlantic, and a third depression over central Russia. Gradients becoming very steep over the Bay of Biscay and France, and increasing over the Iberian Peninsula.

Thursday, 11th February, 1904.

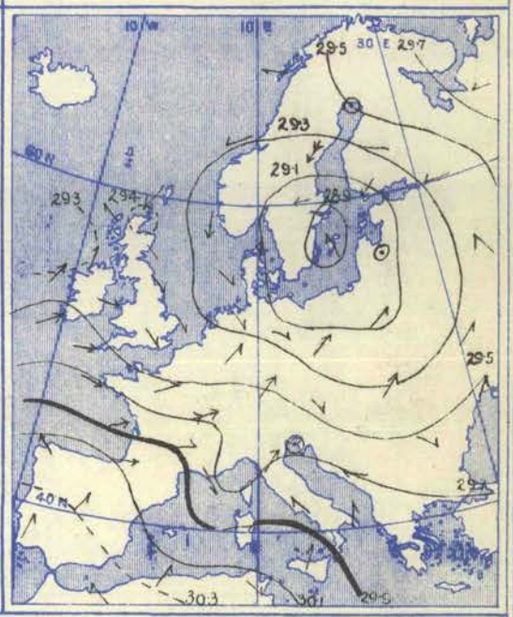
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in the north-west of Norway, at some Scotch stations, in the south of France and Algeria; cloudy or dull generally, with rain or snow over the south and east of Scandinavia and the adjacent parts of Russia and Finland, and showers in some Irish localities, and steady rain at Munich and Bilbao. Rain falling later in many parts of the United Kingdom and France, as well as over central Europe.

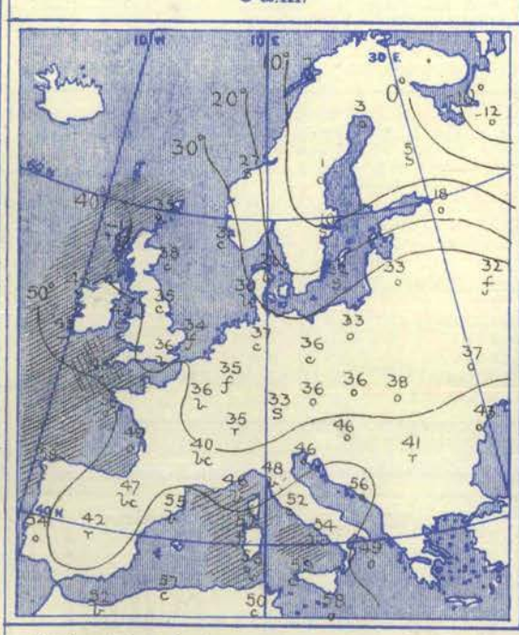
Temperature fallen at various stations in England and the extreme north of Europe, but risen as a whole. Readings at 8 a.m. ranging from 62° at Barcelona and Biarritz, 59° at Malta, 57° at Lisbon and Pesaro, to below 40° over the northern half of our area generally, to below 10° in the north and north-east of Europe, and to below zero in places. Lowest value, −17° at Archangel. Severe frost continuing all day in the northern regions, and maxima only about 40° at many of our own stations, but thermometer rising to 66° at Biarritz, 70° at Nice and on the coast of Algeria.

Wind at 8 a.m. showing a very extensive cyclonic circulation around Denmark, the Westerly current on our southern coasts, over France and the west of Germany, being strong to a gale, and that from the North-Eastward or Eastward over Scandinavia blowing with almost equal strength. Moderate to fresh Southerly to South-Easterly winds prevailing on our north-west coasts. No important change observed later.

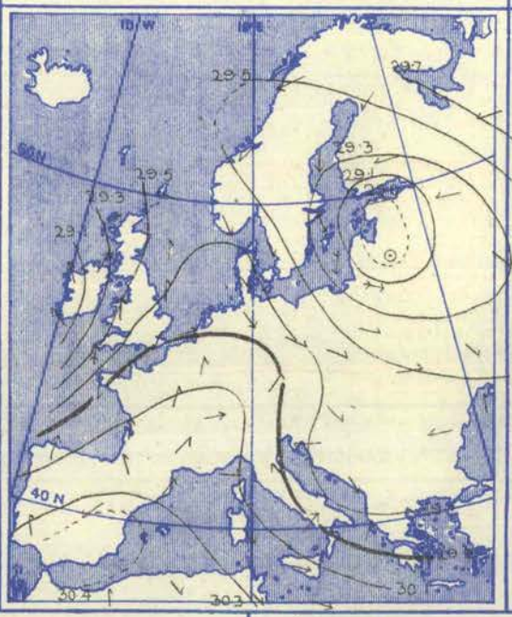
Barometer at 8 a.m. ranging from 30·2 ins. and upwards in the extreme south-west of our area and above 29·6 ins. in the extreme north-east, to less than 28·8 ins. in a depression having its centre over Denmark. Pressure below 29·1 ins. in nearly all parts of the United Kingdom. Danish disturbance travelling east-north-eastwards to Gothland by evening, and several irregularities in the isobars appearing in different portions of our area. Barometer rising briskly all day and evening over the United Kingdom, France, and the North Sea.

Friday, 12th February, 1904.

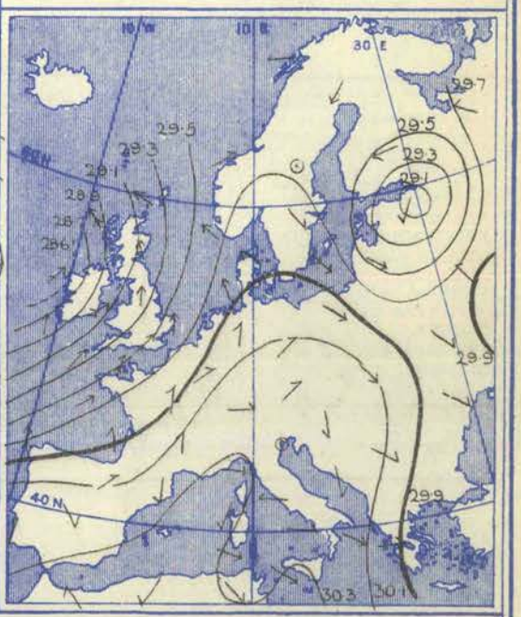
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast very generally, but fine and bright in the centre and south-east of England and the north-east and south of France. Rainy at some of our own western and northern stations, over central France, and at Hermanstadt, and rain or snow falling in many parts of northern Europe and at Munich. Considerable rain experienced later over our Islands and the western countries of the Continent—largest amount, 0·75 in. at Lorient. Thunderstorms occurring at Scilly and in the south of Ireland.

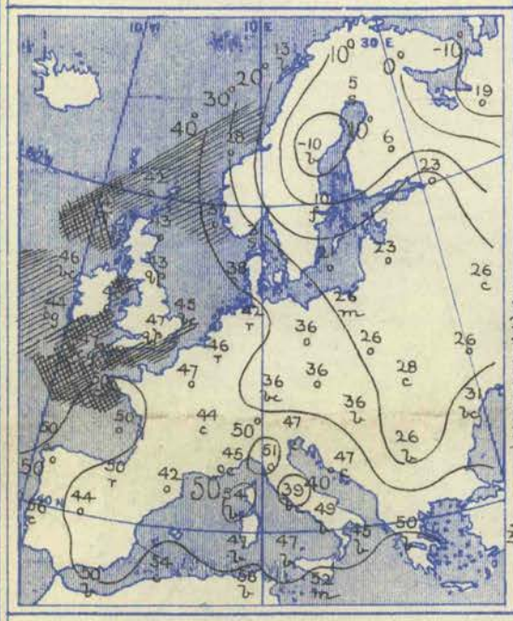
Temperature risen over the United Kingdom, Norway, and Russia, fallen elsewhere. Morning readings highest, 59° at Palermo, 58° at Malta and Corunna, 56° at Lesina, and 54° at Barcelona. Lowest, (1) −12° at Archangel, +3° at Haparanda, 5° at Kuopio, and 7° at Bodö, (2) between 33° and 36° over the greater part of England, (3) 42° at Madrid. Rising subsequently to 50° or above in many English and Irish localities, and to between 50° and 60° in most parts of southern Europe. Highest readings, 67° at Palermo, 72° at Nemours, and 75° at Sfax. Maxima not much above zero in the extreme north.

Wind in morning strong to a gale from the Westward over Italy and the adjacent portion of the Mediterranean. Mainly Southerly over the United Kingdom, Portugal, and the west of France; moderate or light in force on our eastern coasts, but strong to a gale in the west. A complete cyclonic circulation prevailing around the Gulf of Riga; Northerly current over the Gulf of Bothnia blowing a fresh to whole gale. Southerly gale extending to all parts of England by evening, and a Southerly to South-Easterly gale springing up over Scotland.

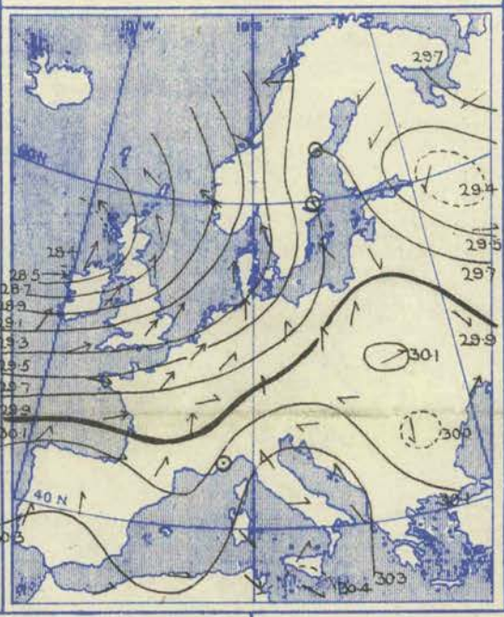
Barometer at 8 a.m. ranging from 30·4 ins. and upwards over the southern half of Spain to less than 29·1 ins. on the west coast of Ireland, and to below 29·9 ins. in a depression centred over the Gulf of Riga. Latter system moving east-north-eastwards later, but barometer falling quickly over our Islands, and the centre of a very deep disturbance approaching our western coasts from the Atlantic. Gradients becoming very steep both over western Europe and the northern half of Russia.

Saturday, 13th February, 1904.

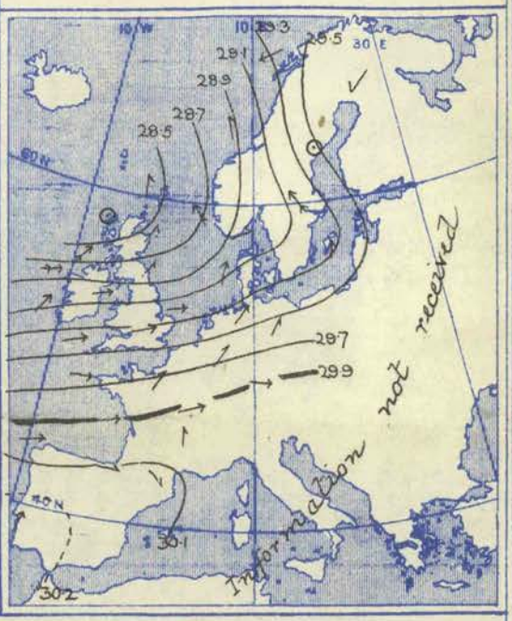
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather at 8 a.m. cloudy or overcast except at some Italian and Algerian stations. Rainy or showery over the south-west of France, the west of Germany, in several parts of the United Kingdom, and at Brussels, and snow falling in the Skager Rack and at Haparanda. Rain falling later in all western and north-western regions—heaviest amounts, 1·0 in. at Rochefort and 1·1 ins. at Faerder.

Temperature risen over France, our Islands, Denmark, and Norway, fallen elsewhere. Readings at 8 a.m. highest, 58° at La Calle, 56° at Lisbon, 52° at Cape Sicié, and 50° along the west coast of France. Lowest, (1) −10° at Hernösand, −9° at Archangel, +6° at Kuopio, and 12° at Bodö, (2) 26° at Hermanstadt, (3) 39° at Rome. Maxima during day below the freezing point in the extreme north, but as high as 50° at Leith and in London, 57° at Perpignan, and 61° at Biarritz.

Wind at 8 a.m. strong to a gale from West or South-West over Ireland, England, and France, and blowing with nearly equal strength from between South and South-East over Denmark, Scandinavia, and the north of Scotland. A separate cyclonic circulation of light or moderate winds prevailing over Russia. Wind veering somewhat and decreasing in force on the Scotch coasts by evening. Very little change elsewhere.

Barometer in morning ranging from 30·4 ins. over the central parts of the Mediterranean to 29·4 ins. and less in a depression near St. Petersburg, and to about 28·3 ins. in a large and very deep disturbance centred off the north-west of Ireland. Latter system travelling slowly north-eastwards during day and baromerer rising again over Ireland and England. Gradients continuing steep over the whole of north-western Europe.

IV.—GENERAL NOTES, etc.

The general character of the pressure distribution during this period was of a type extremely favourable for unsettled conditions of weather in nearly all countries. The barometer was highest in Algeria and the south of Spain, and relatively high in the far north or north-east of Europe, while over the intervening regions an irregularly shaped area of low pressure extended from the Atlantic across our Islands and the North Sea to Russia. Within this area there were usually two or three distinct minima of various intensity moving in a general easterly direction. Several of these minima were deep and the mean level of the barometer was very low, especially over the United Kingdom. The winds were mainly from between South and West over the southern half of our area and from some easterly or northerly point in the northern regions. With the former strong winds or gales were most frequent on our south and south-west coasts, in the Bay of Biscay, and France, but the wind occasionally blew a strong breeze or slight gale on the shores of the Mediterranean also. The North-Easterly wind current was less strong as a whole, but gales were experienced at times, both over Finland and Scandinavia. Towards the end of the week a large depression, at whose centre the mercury was as low as 28·3 ins., travelled slowly in a north-easterly direction off our north-west coasts. This system caused a fresh or strong gale from South and South-West or West throughout the whole of these islands and the adjacent parts of the continent. Severe frost continued all the week over the most northern countries, but the thermometer was fairly high in the south, while over Europe generally it varied a good deal from day to day. Much rain fell over the west of France and the United Kingdom and considerable amounts of rain or snow in those northern parts of the continent which were under the influence of the low pressure systems.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 32.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNESS	4·3	− 8·7	7	− 14	SHEFFIELD	11·7	—	18	—	WESTBOURNE†	19·2†	+ 0·4	29†	+ 1
STRATHPEFFER SPA	10·7	− 4·0	17	− 6	WORKSOP	14·9	+ 0·9	23	+ 1	VENTNOR HOSPITAL	8·4	− 10·8	13	− 16
EDINBURGH	10·4	− 3·0	17	− 5	THURCASTON	6·2	− 8·3	9	− 13	BOURNEMOUTH	14·7	—	22	—
COCKLE PARK	14·9	—	23	—	MARGATE	21·3	+ 4·6	32	+ 7	MARLBOROUGH	6·5	− 7·9	10	− 12
NEWCASTLE-ON-TYNE	15·6	—	24	—	BROADSTAIRS	—	—	—	—	SOUTHPORT	13·1	—	20	—
YORK	12·2	− 1·5	19	− 2	RAMSGATE	23·2	—	35	—	RHYL	15·8	—	24	—
SKEGNESS	12·9	—	20	—	EASTBOURNE	10·5	− 7·4	16	− 11	ABERDOVEY	9·4†	—	14†	—
CROMER	17·2	—	26	—	BRIGHTON	14·3	− 4·0	21	− 6	TENBY	5·0	− 14·4	8	− 22
LOWESTOFT	14·0	—	21	—	WORTHING	11·8	—	18	—	TORQUAY	14·2	− 3·5	21	− 5
DUNMOW	10·2	—	16	—	BOGNOR	18·2†	—	27†	—	NEWQUAY	6·6	− 12·5	10	− 19
										GUERNSEY	14·2†	− 6·8	21†	− 10

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

Reports received too late for insertion in their proper places.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Jan. 16th, 1904.	Shoeburyness	53	—	46·6	—	41·9	+ 3·3	13	24	—	—	—	—	—	—	—
" " " 30th, "	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	9·8	—	16	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 7. SEVENTH WEEK, ENDING SATURDAY FEBRUARY 20TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 38.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	20	41·1	30·4	35·8	2 below	0	− 7	43	+ 7	33	− 13	223	− 30
	1. SCOTLAND, EAST	50	20	41·0	28·9	35·0	3 below	0	−10	49	+ 9	22	− 34	277	− 15
	2. ENGLAND, N.E.	56	26	43·2	31·8	37·5	2 below	3	− 8	37	+ 4	33	− 27	218	− 33
	3. ENGLAND, EAST	54	28	43·7	32·7	38·2	1 below	5	− 8	34	− 3	38	− 28	210	− 69
	4. MIDLAND COUNTIES	56	23	43·5	31·2	37·4	2 below	4	−11	39	+ 3	42	− 36	234	− 48
	5. ENGLAND, SOUTH	53	27	44·2	33·0	38·6	2 below	6	−10	33	+ 6	63	− 30	172	− 43
Principal Grazing Districts.	6. SCOTLAND, WEST	50	21	43·0	31·5	37·3	2 below	3	− 8	38	+10	47	− 23	172	− 35
	7. ENGLAND, N.W.	55	22	43·2	32·9	38·1	2 below	3	− 9	33	+ 5	40	− 32	188	− 17
	8. ENGLAND, S.W.	51	28	45·4	35·1	40·3	2 below	10	− 9	27	+ 5	120	+ 4	117	− 42
	9. IRELAND, NORTH	50	24	43·0	31·9	37·5	4 below	3	−13	36	+11	46	− 53	187	+ 5
	10. IRELAND, SOUTH	55	26	45·8	33·8	39·8	3 below	11	−11	31	+14	115	− 32	135	0
	— CHANNEL ISLANDS	52	32	46·9	38·2	42·6	2 below	20	− 6	11	+ 2	163	− 7	28	− 42

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 38.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	13	3 more	37	+ 4	8·6	+ 0·4	19	+ 5	29	+ 7	46	− 19	12	− 5
	1. SCOTLAND, EAST	4	2	4 less	32	+ 5	4·5	+ 0·3	17	− 1	25	− 1	58	− 29	15	− 7
	2. ENGLAND, N.E.	5	5	1 more	31	+ 6	3·8	+ 0·9	19	+ 2	28	+ 2	73	− 18	18	− 4
	3. ENGLAND, EAST	5	6	2 more	35	+ 8	4·4	+ 1·5	20	− 1	30	− 1	88	− 12	21	− 3
	4. MIDLAND COUNTIES	5	6	1 more	38	+13	5·8	+ 2·3	16	− 1	23	− 2	64	− 22	15	− 5
	5. ENGLAND, SOUTH	6	7	1 more	41	+15	7·3	+ 3·4	18	+ 1	26	+ 1	82	− 11	19	− 3
Principal Grazing Districts.	6. SCOTLAND, WEST	5	14	4 more	35	+ 5	8·2	+ 0·3	11	− 3	17	− 5	50	− 29	12	− 7
	7. ENGLAND, N.W.	6	10	4 more	37	+ 9	6·5	+ 2·0	12	− 5	18	− 7	62	− 19	15	− 5
	8. ENGLAND, S.W.	6	13	6 more	40	+10	9·4	+ 3·6	18	− 2	26	− 3	79	− 25	18	− 6
	9. IRELAND, NORTH	6	11	5 more	39	+ 6	6·7	+ 1·7	11	− 6	15	− 9	50	− 38	12	− 9
	10. IRELAND, SOUTH	6	12	4 more	40	+ 8	8·3	+ 1·9	11	− 8	15	−12	73	− 30	17	− 7
	— CHANNEL ISLANDS	7	16	9 more	45	+14	10·3	+ 5·3	20	− 4	29	− 5	96	− 26	22	− 6

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather continued in a very unsettled condition throughout the entire Kingdom, but was relatively dry in the east of Scotland. Rain, sleet or snow was frequently experienced in most of the more central and northern districts, and rain in the south and south-west.

Temperature was below the mean, the deficit ranging from 1° in England E. to 3° in Scotland E. and Ireland S., and to 4° in Ireland N. The highest of the maxima were recorded on Friday at most Scotch stations, but on Saturday in Ireland and England. They varied from 56° in England E. and the Midland Counties and 55° in England N.W. and Ireland S., to 49° in Scotland N. The lowest of the minima, which occurred on irregular dates, but mostly towards the end of the week, ranged from 20° or 21° in Scotland, 22° in England N.W., and 23° in the Midland Counties, to 28° in England E. and S.W., and to 32° in the Channel Islands.

Rainfall exceeded the normal in all districts except Scotland E. Over the eastern, central, and southern counties of England the excess was slight, but in the western and south-western parts of the Kingdom it was again considerable.

Bright Sunshine was deficient over the Kingdom as a whole, but was above the normal amount in Scotland N., England N.E., and England S. The percentage of the possible duration ranged from 30 in England E. and 29 in the Channel Islands, to 17 in Scotland W., and to 15 in Ireland.

Barometer and Wind. A series of depressions from the Atlantic again passed over our Islands and their immediate neighbourhood, the wind being often strong from between South and West, and occasionally rising to the force of a gale. The centres of most of the deeper disturbances remained outside our north-western and northern coasts, but during the night of the 16th-17th a system of considerable intensity travelled quickly east-north-eastwards directly over our southern counties, and this was followed by a secondary that moved south-eastwards from the north of Ireland to Normandy. During the night of Thursday a feeble anticyclone extended over the Kingdom from Spain and the Bay of Biscay, but during Friday it receded before the advance of another large and deep low pressure system towards our north-west coasts, and which at the end of the week lay off the north-west of Norway.

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II.—DATA from which the SUMMARY on page 37 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
C. SCOTLAND, N.	Sumburgh Head	43	30	41·0	32·9	37·0	− 1·2	0	35	5	1·06	+ 0·31	*	*	*	*
	Stornoway	48	31	41·6	33·6	37·6	− 1·4	0	31	7	1·33	+ 0·39	20·2	+ 3·8	31	+ 6
	Wick	43	27	41·0	30·3	35·7	− 2·4	0	44	5	0·31	− 0·20	*	*	*	*
	Lairg Ꞩ	43	20	40·8	27·7	34·3	− 1·4	0	54	?4	0·87	+ 0·13	*	*	*	*
	Glencarron Ꞩ	46	20	40·6	28·9	34·8	− 2·2	0	50	7	2·33	+ 0·64	*	*	*	*
	Fort Augustus Ꞩ	?48	?22	?41·4	?28·2	?34·8	− 3·6	0	50	?6	1·12	+ 0·18	15·3	+ 4·3	23	+ 7
	Fort William	49	26	41·5	31·5	36·5	− 2·6	0	39	6	2·34	+ 0·48	15·7	+ 1·6	23	+ 2
1. SCOTLAND, E.	Nairn	48	23	41·7	27·4	34·6	− 3·6	0	52	5	0·30	− 0·09	*	*	*	*
	Aberdeen	45	27	40·9	30·4	35·7	− 2·8	0	44	2	0·23	− 0·32	17·3	− 2·2	26	− 3
	Braemar Ꞩ	42	20	36·9	26·2	31·6	− 3·1	0	73	4	0·11	− 0·57	*	*	*	*
	Ochtertyre Ꞩ	48	24	42·9	27·9	35·4	− 2·6	3	50	4	0·27	− 0·58	*	*	*	*
	Leith Ꞩ	50	29	44·0	32·0	38·0	− 1·9	6	36	4	0·27	− 0·09	*	*	*	*
	Marchmont Ꞩ	49	25	39·7	29·3	34·5	− 3·0	0	53	2	0·08	− 0·51	17·7	− 0·1	26	0
2. ENGLAND, N.E.	Alnwick Castle	50	26	42·8	29·9	36·4	− 2·1	2	43	3	0·22	− 0·32	*	*	*	*
	Durham	50	27	42·2	31·7	37·0	− 1·3	1	37	4	0·17	− 0·23	26·3	+ 8·9	39	+ 13
	Shields	51	27	44·4	31·0	37·7	− 1·8	7	40	2	0·25	− 0·12	*	*	*	*
	Scarborough Ⓜ	56	31	43·8	32·7	38·3	− 1·1	5	34	7	0·63	+ 0·19	12·2	—	18	—
	Spurn Head	49	32	43·3	33·6	38·5	− 0·8	4	31	5	0·47	+ 0·12	*	*	*	*
	Lincoln	51	29	42·6	32·0	37·3	− 1·8	2	35	5	0·89	+ 0·49	*	*	*	*
	Fulbeck (Lincolnshire)	—	—	—	—	—	—	—	—	6	0·85	+ 0·47	17·3	—	25	—
3. ENGLAND, E.	Hillington Ⓜ	52	28	43·5	32·1	37·8	− 1·0	4	36	5	0·80	+ 0·36	16·3	− 2·7	24	− 4
	Yarmouth	53	31	43·3	32·7	38·0	− 0·5	4	33	6	1·04	+ 0·61	*	*	*	*
	Geldeston	54	31	44·6	33·1	38·9	− 0·5	7	33	6	0·71	+ 0·34	22·2	+ 2·6	32	+ 4
	Cambridge	53	28	43·7	31·7	37·7	− 1·6	5	37	3	0·43	+ 0·10	18·2	− 1·1	26	− 2
	Felixstowe	54	31	44·1	33·8	39·0	− 0·3	6	31	4	0·51	—	28·8†	—	42†	—
	Clacton-on-Sea	53	31	43·0	33·1	38·1	− 1·5	3	32	4	0·40	—	31·4	—	45	—
	Rothamsted	51	29	43·3	31·5	37·4	− 1·3	4	38	6	0·42	− 0·05	17·1	− 1·0	24	− 2
	Shoeburyness	52	30	44·3	33·3	38·8	− 0·8	6	32	4	0·40	+ 0·10	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	49	26	42·7	30·8	36·8	− 1·1	2	40	5	0·94	+ 0·32	18·5	—	27	—
	Bawtry (Hesley Hall)	50	27	43·3	30·7	37·0	− 2·3	4	40	4	0·68	+ 0·29	*	*	*	*
	Nottingham	54	26	45·3	30·3	37·8	− 1·7	9	43	5	0·54	+ 0·13	14·0	—	20	—
	Colly Weston (Stamford)	51	27	44·0	30·3	37·2	− 1·8	6	43	6	0·51	+ 0·08	*	*	*	*
	Cheadle Ⓜ	52	26	41·0	30·4	35·7	− 2·3	0	44	5	0·59	+ 0·02	*	*	*	*
	Birmingham (Edgbaston)	52	29	41·7	31·9	36·8	− 2·5	0	36	7	0·81	+ 0·39	12·2	—	18	—
	Shrewsbury	54	31	44·4	33·6	39·0	− 1·3	7	31	6	0·52	—	*	*	*	*
	Hereford Ⓜ	56	27	44·9	31·1	38·0	− 2·0	8	40	5	0·49	− 0·02	*	*	*	*
	Cirencester	51	23	43·3	29·7	36·5	− 2·1	4	44	5	0·66	+ 0·09	16·5	− 2·9	24	− 4
	Oxford	52	31	44·4	33·0	38·7	− 1·3	7	33	6	0·30	− 0·14	17·2	− 0·6	25	− 1
5. ENGLAND, S.	London	53	30	45·4	31·9	38·7	− 1·8	10	38	5	0·47	+ 0·07	12·3‡	+ 1·5‡	18‡	+ 2‡
	Swarraton (Alresford) Ⓜ	51	28	43·9	31·1	37·5	− 1·3	5	39	6	0·72	+ 0·08	*	*	*	*
	Tunbridge Wells Ⓜ	51	29	43·2	31·2	37·2	− 1·2	3	39	5	0·55	—	19·4	—	28	—
	Dungeness	49	27	44·1	32·0	38·1	− 2·2	6	37	5	0·30	− 0·03	15·1	—	22	—
	Hastings (St. Leonards)	48	30	43·2	33·6	38·4	− 2·1	3	30	5	0·90	+ 0·38	22·0	0·0	31	0
	Southampton	53	31	46·2	35·8	41·0	− 0·5	12	25	5	0·73	+ 0·15	19·6	− 0·1	28	0
	Portland Bill	48	34	44·9	36·4	40·7	− 2·1	8	22	6	0·88	—	*	*	*	*
	Shaftesbury Ⓜ	49	29	42·7	31·7	37·2	− 2·1	2	37	7	0·75	+ 0·12	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	50	26	42·9	29·6	36·3	− 3·9	3	44	7	2·29	+ 0·68	*	*	*	*
	Glasgow	48	29	41·8	33·0	37·4	− 1·7	0	32	4	0·59	− 0·16	12·9	+ 1·2	19	+ 2
	Cally Ꞩ	48	21	44·0	29·9	37·0	− 2·1	6	44	2	1·04	+ 0·08	*	*	*	*
	Aspatria	47	24	42·4	30·9	36·7	− 2·6	1	39	5	1·17	—	10·1	—	15	—
	Douglas (Isle of Man)	49	30	43·8	34·0	38·9	− 1·9	5	29	7	1·99	+ 1·19	11·1	− 7·3	16	− 11
7. ENGLAND, N.W.	Newton Rigg	49	22	40·9	29·0	35·0	− 2·3	0	49	4	0·83	—	13·9	—	20	—
	Stonyhurst	48	26	40·9	31·4	36·2	− 2·7	0	41	5	1·23	+ 0·39	12·8	− 3·1	19	− 5
	Blackpool Ⓜ	47	26	43·4	32·1	37·8	− 1·7	4	36	5	1·16	+ 0·61	13·0	− 3·4	19	− 5
	Manchester (Prestwich)	49	25	41·8	31·5	36·7	− 2·3	0	37	5	1·14	+ 0·60	9·4	—	14	—
	Liverpool Obsy. (Bidston)	51	32	44·0	33·7	38·9	− 1·3	6	31	7	0·82	+ 0·39	13·2	—	19	—
	Chester (Hawarden Bridge)	55	31	45·8	33·2	39·5	− 1·7	11	33	4	0·35	—	*	*	*	*
	Llandudno Ⓜ	51	34	44·2	36·7	40·5	− 1·5	6	20	7	0·60	+ 0·07	10·4	− 8·1	15	− 12
	Holyhead	48	33	44·0	34·9	39·5	− 2·3	6	27	6	1·05	+ 0·45	*	*	*	*
	Bettws-y-Coed	51	29	43·8	34·0	38·9	− 3·0	5	29	7	1·80	—	9·9	—	14	—
8. ENGLAND, S.W.	Pembroke	49	34	45·7	38·4	42·1	− 0·3	16	10	5	0·67	+ 0·02	14·0	− 6·1	20	− 9
	Clifton	50	31	44·5	34·3	39·4	− 1·8	7	29	6	0·47	− 0·16	*	*	*	*
	Bath	51	28	45·3	31·4	38·4	− 3·1	9	40	7	0·57	0·00	17·6	—	25	—
	Arlington (N. Devon)	48	30	43·3	33·0	38·2	− 2·6	4	33	6	1·95	+ 0·95	*	*	*	*
	Cullompton Ⓜ	50	29	45·9	33·8	39·9	− 1·5	11	32	6	1·10	+ 0·40	19·4	+ 1·0	28	+ 1
	Falmouth	51	35	46·2	38·2	42·2	− 1·7	17	11	7	2·65	+ 1·72	24·5	+ 2·9	35	+ 4
	Plymouth	51	33	46·6	36·8	41·7	− 1·2	13	21	6	1·93	+ 1·22	18·0	− 2·4	26	− 3
9. IRELAND, N.	Malin Head	48	29	41·6	32·3	37·0	− 4·7	0	35	7	0·83	+ 0·33	*	*	*	*
	Edenfel (Omagh)	50	24	41·3	29·4	35·4	− 3·8	0	46	6	1·54	+ 0·93	*	*	*	*
	Blacksod Point	50	33	45·3	37·0	41·2	− 1·8	9	20	7	1·78	+ 0·93	*	*	*	*
	Markree Castle	50	26	44·2	31·4	37·8	− 3·0	6	39	6	0·95	+ 0·24	11·5	− 5·3	17	− 8
	Armagh	49	28	42·2	31·1	36·7	− 3·7	1	39	4	0·75	+ 0·21	9·4	− 7·3	14	− 11
	Donaghadee	50	27	43·1	30·4	36·8	− 4·5	3	42	6	0·61	+ 0·05	*	*	*	*
10. IRELAND, S.	Dublin	55	30	45·0	34·4	39·7	− 2·9	8	29	5	0·59	+ 0·09	11·9	− 6·9	17	− 10
	Birr Castle	51	27	44·4	31·1	37·8	− 3·4	7	40	6	0·93	+ 0·41	10·7	− 7·0	16	− 10
	Kilkenny	53	26	44·1	30·0	37·1	− 4·7	6	44	6	0·68	+ 0·07	*	*	*	*
	Waterford	53	29	46·3	33·4	39·9	− 2·3	12	33	6	0·86	+ 0·04	*	*	*	*
	Roche's Point	51	33	46·6	35·0	40·8	− 3·2	13	28	7	0·57	− 0·43	*	*	*	*
	Valencia	53	32	47·1	37·0	42·1	− 2·8	22	14	7	2·25	+ 1·08	9·1	− 10·3	13	− 15
	Killarney	52	30	47·3	35·1	41·2	− 2·3	15	28	7	2·46	+ 1·24	*	*	*	*
	Foynes	52	31	45·2	34·5	39·9	− 3·1	9	29	6	1·27	+ 0·53	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	38	47·3	39·4	43·4	− 2·3	21	7	7	1·12	+ 0·48	20·5	− 2·8	29	− 4
	Jersey	50	32	46·4	37·0	41·7	− 1·8	12	21	7	1·97	+ 1·37	20·2	− 4·5	29	− 6

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ꞩ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

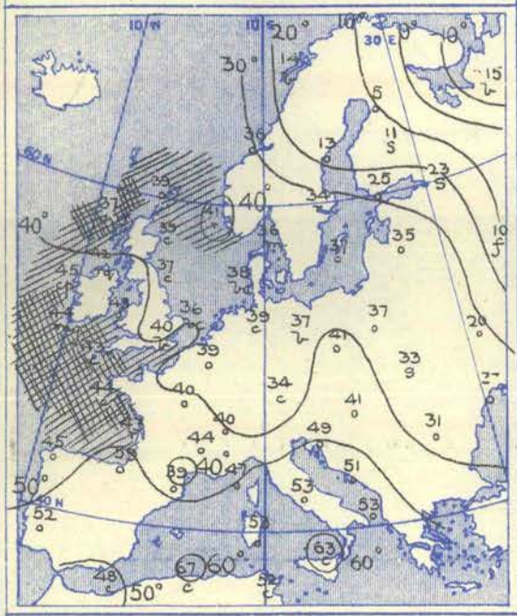
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

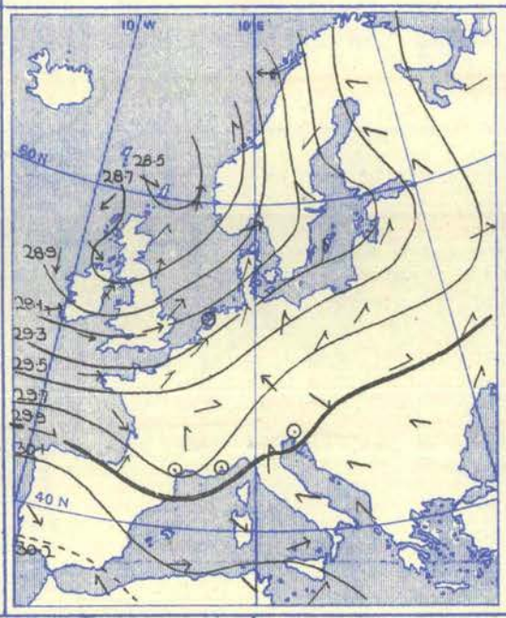
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 14th February, 1904.

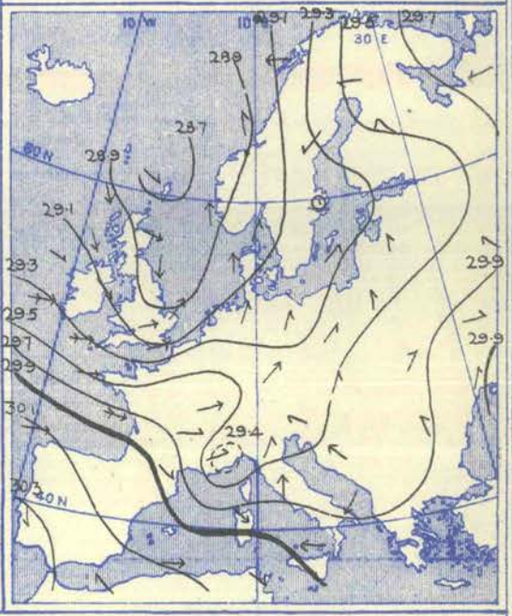
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in a few scattered localities, but cloudy or overcast generally. Showery in many parts of the United Kingdom and rainy in the south of Scandinavia, at Frankfürt and Rochefort. Snow falling in Finland and at Lemberg. Much precipitation experienced later over all the western and north-western regions, and slighter amounts further east and south—1·1 ins. at Valencia and Le Mans, and 0·8 in. at Besançon. Thunderstorms occurring at Biarritz and Perpignan.

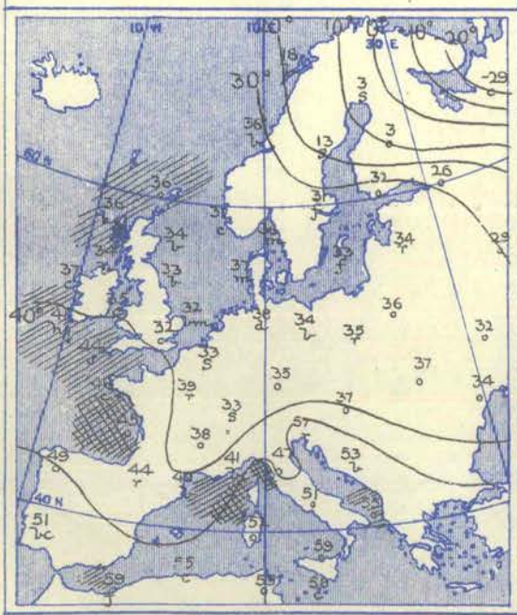
Temperature risen in Italy and the north and centre of Europe, fallen in most other places. Morning readings highest, 67° at Algiers, 63° at Palermo, 59° at Biarritz, and 56° at Leghorn. Lowest, (1) −15° at Archangel, + 5° at Uleaborg, 10° at Moscow, 13° at Hernösand, and 14° at Bodö, (2) 31° at Hermanstadt, (3) 39° at Perpignan. Rising subsequently to 79° at Algiers, 72° at Palermo, and to between 60° and 70° on many other shores of the Mediterranean. Maxima below 50° over our Islands and Germany, and much below 32° in the far north.

Wind at 8 a.m. showing an extensive cyclonic circulation around the northern part of the North Sea. Westerly current strong to a gale in the west of France and in various parts of our Islands, and the Easterly current blowing a fresh gale at Bodö. No general change taking place later, but a separate circulation of strong winds or gales setting in over the Gulf of Genoa and Italy.

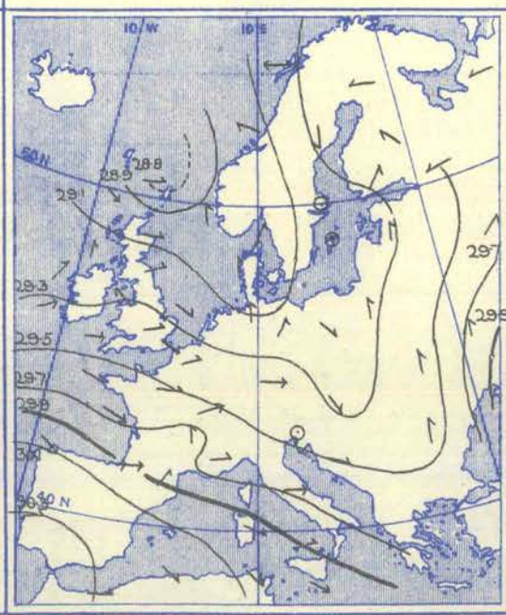
Barometer at 8 a.m. ranging from above 30·2 ins. over the west of Algeria and its vicinity and 29·8 ins. at Archangel, to about 28·4 ins. in the centre of a large disturbance lying between the Shetlands and Norway. Depression apparently moving northwards during day, and a secondary travelling eastwards from the north of Ireland to the North Sea. A small but deep disturbance forming over the Gulf of Genoa, and gradients in that region becoming steep. Pressure increasing decidedly on our northern and western coasts, in the west of France, and the Peninsula.

Monday, 15th February, 1904.

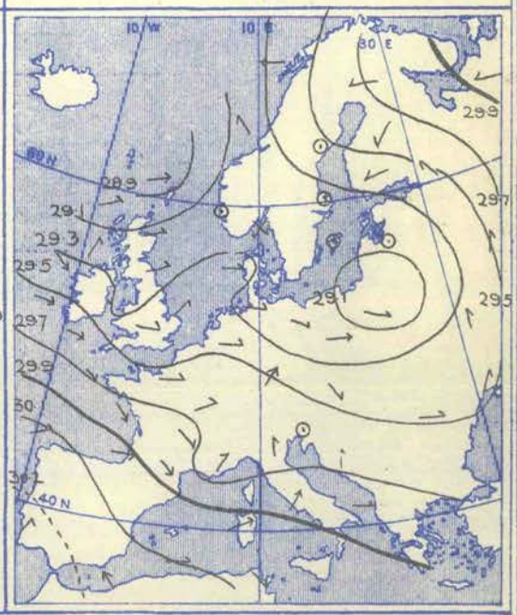
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. dull or very cloudy generally, but fine in various parts of our Islands, in the west of Norway, and in the south-east of France. Rain, hail, or sleet prevailing at some of our own southern and south-western stations, rain at Trieste, Biarritz, Paris, in the west of Germany, and at Riga. Snow falling in several parts of Sweden, and also at Brussels. Some precipitation later in most regions, but amounts not heavy. Lightning occurring at Portland Bill.

Temperature changed rather irregularly, but fallen in most places. Readings at 8 a.m. highest, 59° at Nemours and Palermo, 57° at Trieste, and 55° at Brindisi. Lowest, (1) −29° at Archangel, + 3° at Uleaborg, and 8° at Kuopio, (2) 32° at Wick, Nairn, Nottingham, and in London, and 33° at Parsonstown, (3) 33° at Belfort. Maxima during day only about 40° in many parts of our Islands, and again much below 32° in the far north, but rising to above 50° in the south of Europe, and to above 60° in places. Highest values, 72° at Palermo and Malta, and 79° at Algiers.

Wind in morning moderate to strong from West and North-West over our Islands, and strong to a gale from the same quarters over the Bay of Biscay, the Mediterranean, and the south generally. Moderate from the Southward over all the more eastern countries, and fresh or strong from East in the far north. No important change later except the setting in of a cyclonic circulation around Poland.

Barometer at 8 a.m. ranging from above 30·3 ins. over the south of Spain, above 29·9 ins. over the south of Russia, and 29·8 ins. at Archangel, to 28·99 ins. at Cuxhaven, and 28·80 ins. in the Shetlands. Gradients steep over the southern and south-eastern portions of our area, rather steep to moderate or slight elsewhere. A cyclonic disturbance appearing over Poland by evening, and a secondary system shown over the north-west of England. Pressure distribution continuing very irregular—falling again in the Azores.

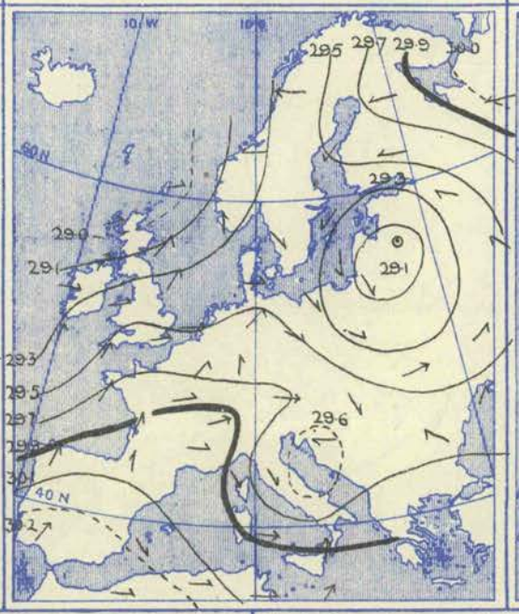
Tuesday, 16th February, 1904.

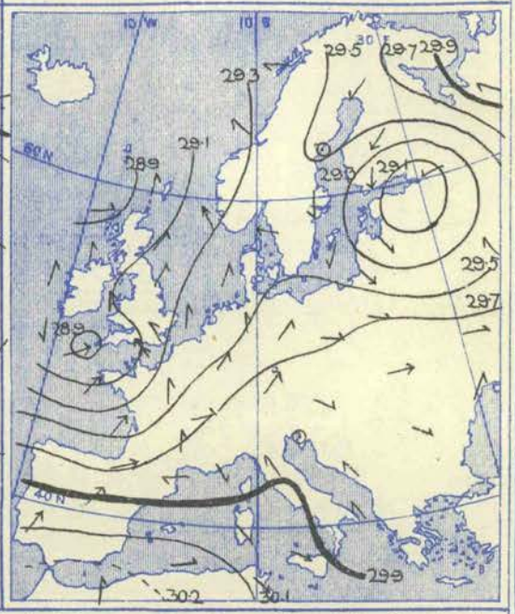
Temperature and Weather. 8 a.m.

Weather at 8 a.m. cloudy or overcast as a whole, but fine and bright in most parts of Great Britain, Norway, and in the Riviera. A thunderstorm prevailing at Rome, rain at Naples and on our south-west coasts, and snow at Karlstad, Memel, St. Petersburg, and Moscow. Rain or sleet falling later in nearly all the western and southern regions, and snow at various northern and eastern stations—heaviest amounts, 0·6 in. at Portland Bill, and about an inch in the west of France.

Temperature changed irregularly. Morning readings ranging from 61° at Alicante, 57° at Corunna, 56° at Algiers and Malta, to below 40° over our area generally, and to much below freezing point in the extreme north. Lowest value, −26° at Archangel. Maxima during day above 60° in the far south, and as high as 72° at Sfax, and 77° at Nemours. Less than 50° over our Islands and the greater part of our area, and below 32° in the north of Russia and Scandinavia.

Barometer and Wind. 8 a.m. and 6 p.m.



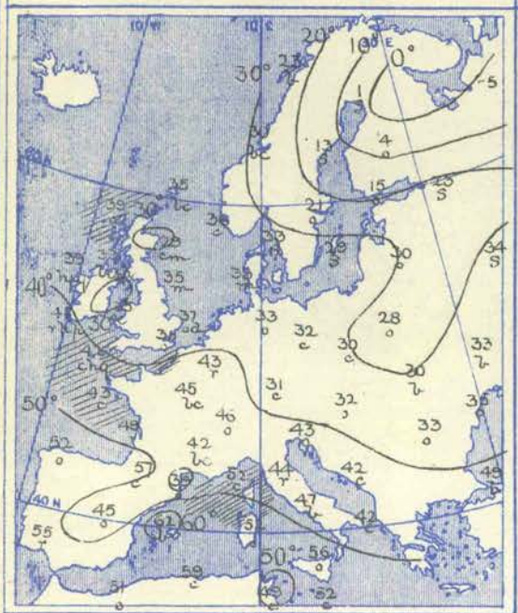


Wind at 8 a.m. showing a cyclonic circulation, strong to a gale, over Italy and the adjacent part of the Mediterranean, and a similar movement of light to fresh or strong winds around the Baltic Provinces of Russia. Moderate Southerly breezes prevailing on our south-west coasts, and South-Westerly to Westerly winds over these Islands generally. A cyclonic circulation of strong winds or gales setting in later over our south-western districts, but that over southern Europe dying out.

Barometer at 8 a.m. ranging from above 30·2 ins. in Algeria and the south of Spain and 30·04 ins. at Archangel, to less than 29·6 ins. over the Adriatic and Italy, to below 29·1 ins. in another depression having its centre between Memel and Riga, and to below 29·0 ins. in a system off the north of Scotland. Pressure decreasing briskly on our south-west coasts. Barometer falling quickly in our south-western and southern districts during day, and a small but deep disturbance advancing to the Bristol Channel by evening. Gradients becoming very steep over the Bay of Biscay, France, and our southern coasts. Italian depression dispersing; that over Russia moving eastwards.

Wednesday, 17th February, 1904.

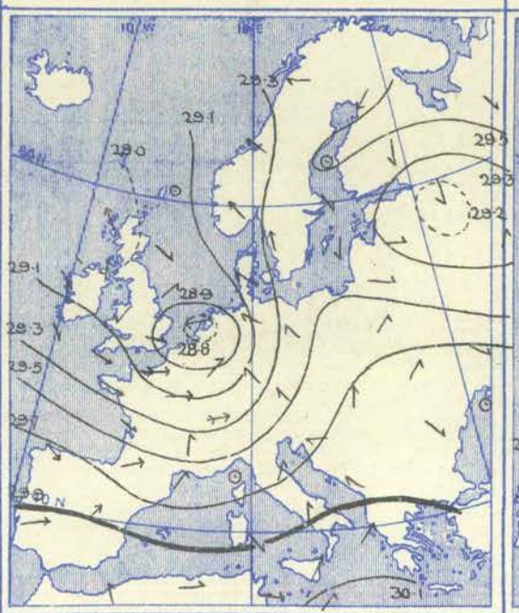
Temperature and Weather. 8 a.m.

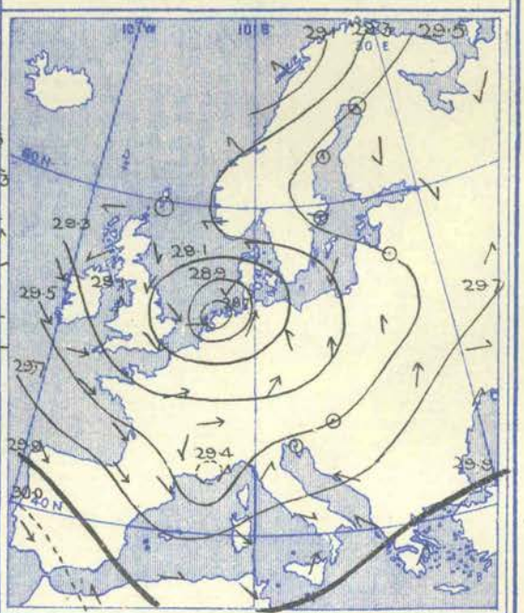


Weather at 8 a.m. dull or very cloudy except at some Scotch stations and on the west coast of Norway. Rain, hail, or snow falling in many parts of the United Kingdom and the northern half of the Continent, and rain in various localities further south. A considerable amount of precipitation occurring later in the west and north-west, and slight amounts in the east and south-east. Thunderstorms experienced at Valencia, Ireland, and in the west of France.

Temperature fallen in most regions, but risen at Archangel, in France, Italy, and Algeria. Readings in morning highest, 62° at Barcelona, 59° at Algiers, and 57° at Biarritz. Lowest, (1) −5° at Archangel, +1° at Haparanda, 12° at Helsingfors, and 22° at Karlstad, (2) 24° at Nairn, 29° at Parsonstown, and 33° at Nottingham, (3) 31° at Munich, (4) 39° at Perpignan. Thermometer remaining very low all day over northern Europe, and not exceeding 40° at several of our own stations, but nearly touching 60° on the south and south-west coast of France, and in Italy, and exceeding 70° in Algeria and Greece. Highest values, 77° at Patras and Algiers and 79° at Nemours.

Barometer and Wind. 8 a.m. and 6 p.m.



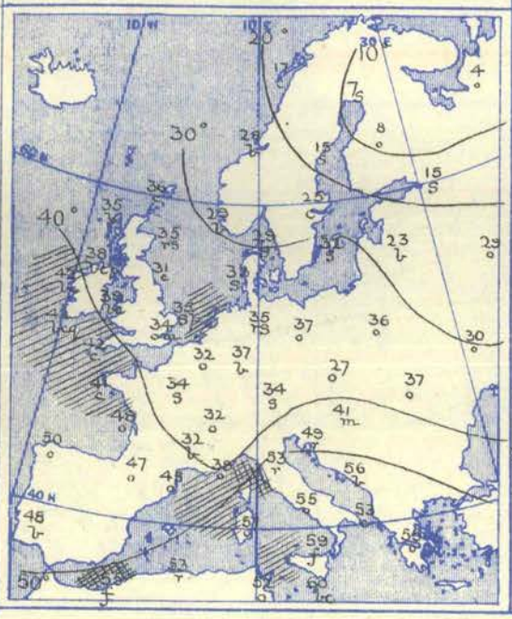


Wind at 8 a.m. showing two distinct cyclonic circulations, one of strong winds or gales around Norfolk, and another of light or moderate breezes over Russia. Moderate to fresh Southerly breezes prevailing in the Hebrides and at Malin Head. Another cyclonic movement setting in later over the south-east of France and its neighbourhood, and also over the Irish Sea. Wind decreasing in force over England, increasing in the south of Ireland.

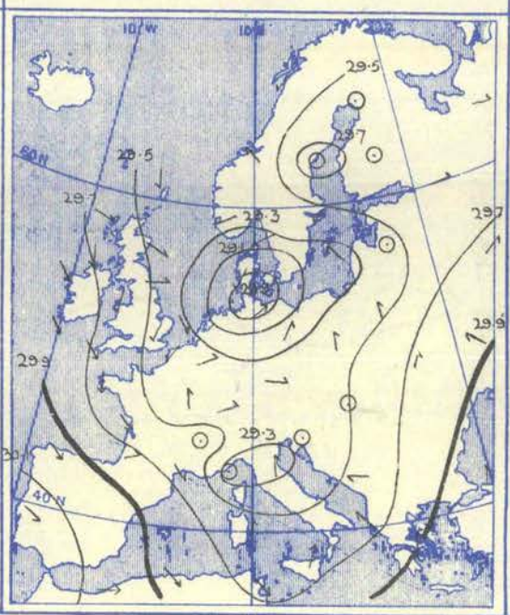
Barometer at 8 a.m. ranging from 30·1 ins. at Malta to 29·1 ins. at St. Petersburg, less than 29·0 ins. off our north-west coasts, and to below 28·8 ins. in a small, well-defined minimum off our south-east coasts. A depression advancing towards Lapland later, a secondary appearing over the Irish Sea, and another system over the south-east of France. Both the Russian depression and the minimum off our south-east coasts travelling east-north-eastwards, the latter reaching the north of Holland by 6 p.m.

Thursday, 18th February, 1904.

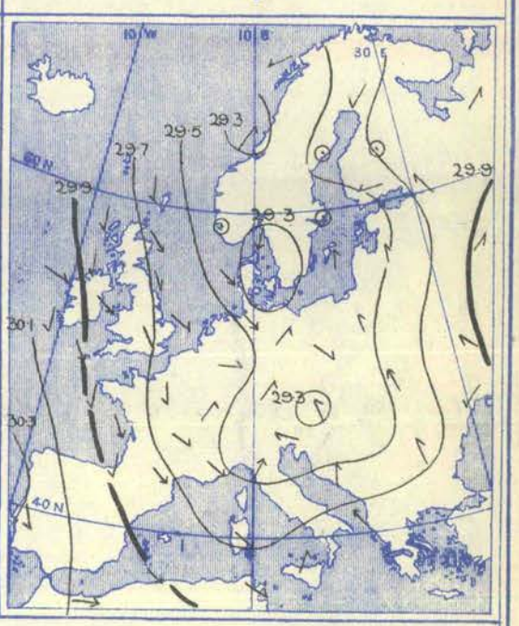
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in a few places, but dull and very unsettled as a whole. Snow falling in several parts of Northern Europe, sleet or snow at some of our own stations, snow in various French localities, and rain further south. Considerable amounts of rain or snow experienced later in different continental districts—heaviest falls, 0·5 in. at Nice, 0·6 in. at Memel, 0·8 in. at Vienna and Bilbao, and 1·5 ins. at Florence. Thunderstorms occurring at Lyons, Biarritz, and Algiers.

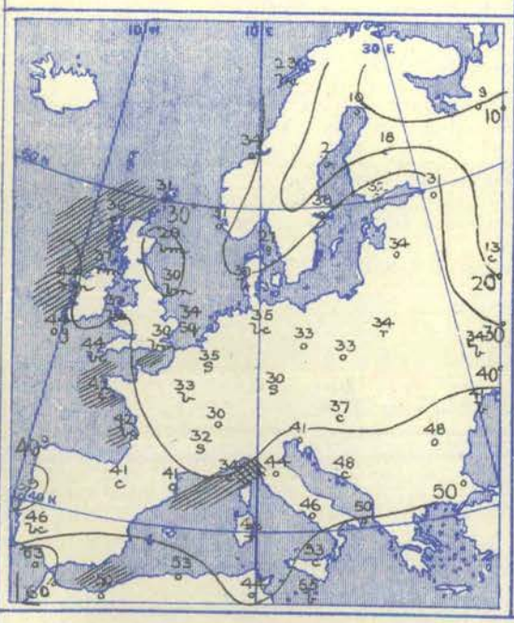
Temperature changed irregularly. Readings at 8 a.m. highest, 60° at Malta and La Calle, 59° at Palermo, and 56° at Pesaro and Lésina. Lowest, (1) 4° at Archangel, 7° at Haparanda, 15° at St. Petersburg, and 17° at Bodö, (2) 27° at Cracow, (3) 32° at Oxford and 35° at Parsonstown, (4) 39° at Cape Sicié. Severe frost prevailing all day in the far north, but thermometer registering readings of 60° or above in many southern regions. Highest value, 72° at Sfax and Palermo. Maxima in the United Kingdom rather above or slightly below 40°.

Wind in morning showing two cyclonic circulations, one, of considerable strength, around Holstein, and the other, of moderate to strong winds, around the Gulf of Genoa. Cyclonic circulations becoming less well marked by evening, and some decrease in the force of the North-Westerly wind taking place over our Islands. Westerly and South-Westerly wind increasing to a gale on some coasts of southern Europe.

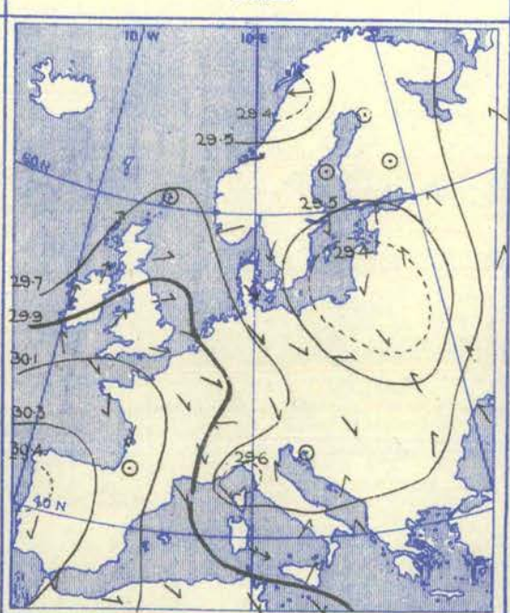
Barometer at 8 a.m. ranging from above 30·2 ins. in Portugal and the adjacent parts of Spain and the ocean to less than 29·3 ins. in a depression over the north of Italy and its vicinity, and to about 28·8 ins. in another, and deeper, system having its centre midway between Cuxhaven and Fanö. Both baric minima moving north-eastwards during day and becoming less regular in form. The more northern of the two decreasing greatly in depth by 6 p.m.

Friday, 19th February, 1904.

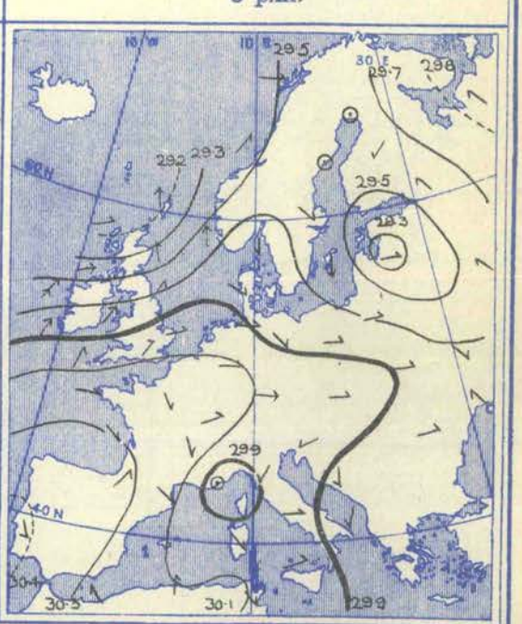
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. dull and rainy in the west of Ireland, and cloudy or dull in almost all Continental regions, snow falling at Brussels, rain or snow in the Gulf of Finland, and rain at Warsaw, Nice, and Bilbao. Fine and bright in nearly all parts of the United Kingdom, the north-east of France, Holland, and Jutland. Rain spreading later to all our own stations, and either rain or snow occurring at most of those on the Continent.

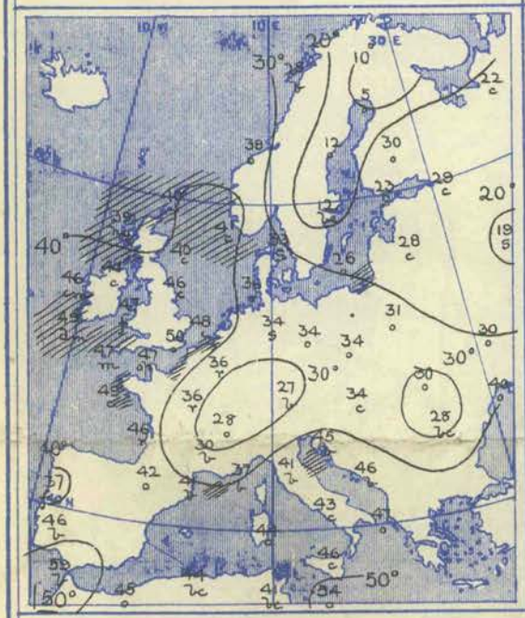
Temperature fallen generally; risen in Norway and Finland. Morning readings highest, 63° at San Fernando, 55° at Malta, and 53° at Palermo. Lowest, (1) 2° at Hernösand, 9° at Archangel, and 13° at Moscow, (2) 28° at Nottingham and 30° at Bath and in London, (3) 30° at Munich and Belfort, and 34° at Nice, (4) 39° at Oporto. Rising later to 51° at Liverpool and North Shields, to 63° at Brindisi, and to 66° at Nemours. Remaining many degrees below 32° in the north of Sweden.

Wind at 8 a.m. showing a moderate to fresh cyclonic circulation around the Baltic and an irregular cyclonic circulation of strong winds or gales over Italy, the Riviera, and the western part of the Mediterranean. Strong and increasing Southerly winds prevailing on our north-western coasts. Increasing to a gale from the South-Westward on many of our own coasts during the ensuing twenty-four hours, but no great change taking place on the Continent.

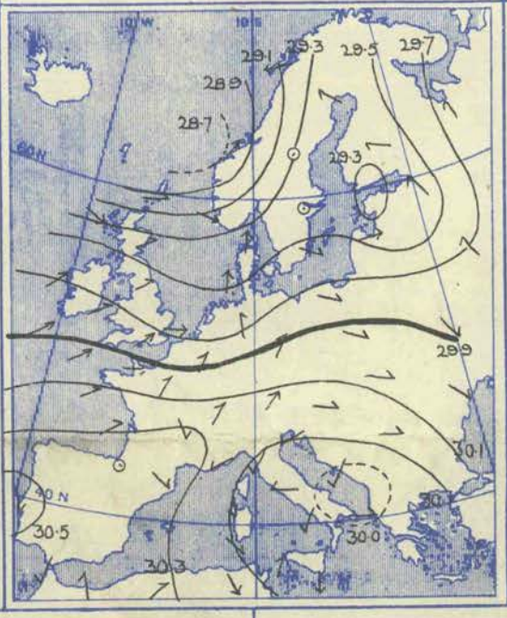
Barometer at 8 a.m. ranging from 30·4 ins. at Oporto and above 30·0 ins. over central Russia, to below 29·6 ins. in a depression near Nice, and to less than 29·4 ins. (1) in a system over the Baltic, and (2) in another over the north-west of Norway. Barometer falling decidedly on our own north-west coasts. A new and large depression appearing off the north of Scotland by evening, and gradients increasing greatly over the United Kingdom and the west of Norway.

Saturday, 20th February, 1904.

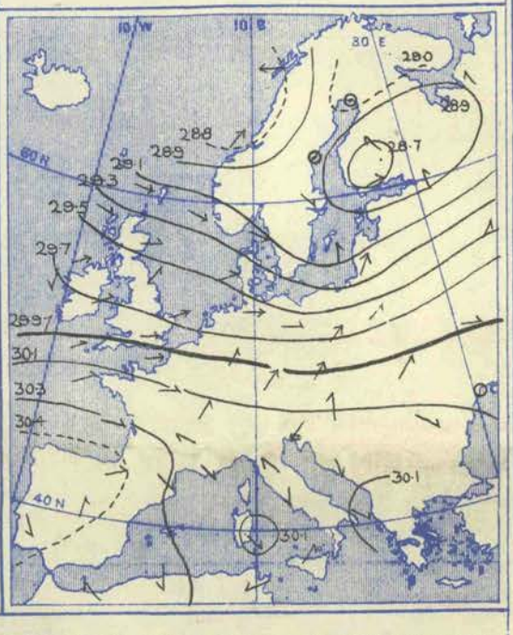
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. dull or very cloudy at almost all stations, but fine and bright in the Riviera. Rainy in many parts of the United Kingdom, the west and north of France, the Netherlands, and Denmark, and snow falling at Limoges, Cuxhaven, Hangö, and in the Skager Rack. Considerable precipitation occurring during the ensuing twenty-four hours in all countries except Spain and Portugal, Italy, and the south of Austria—heaviest falls, 1·3 ins. at Cracow, 0·8 in. at Algiers, 0·6 in. at Memel, and 0·4 in. at Moscow, Liverpool, and Blacksod Point.

Temperature risen quickly over our Islands and most parts of northern Europe, fallen in most other places. Morning readings highest, 54° at Malta, and 50° in London and at Roche's Point. Lowest, (1) 5° at Haparanda, 12° at Stockholm, (2) 19° at Moscow, (3) 27° at Munich, (4) 37° at Nice and Oporto. Maxima exceeding 50° in most parts of England, Ireland, France, and southern Europe, but not touching 60°. Frost rather less severe in the far north.

Wind at 8 a.m. blowing freshly or strongly or with the force of a moderate gale from the Westward over the United Kingdom and the north of France, and drawing into the Southward on the eastern shores of the North Sea, and into East at Bodö. A complete cyclonic circulation prevailing over the Baltic Provinces of Russia and their vicinity, and another of little strength over the Adriatic and the adjacent countries. Not much change as a whole later—veering to West in Denmark.

Barometer at 8 a.m. ranging from 30·4 ins. to 30·5 ins. in an anticyclone over the Iberian Peninsula, to below 30·0 ins. in a depression over the Adriatic, to less than 29·3 ins. in another over the Gulf of Riga and its neighbourhood, and to less than 28·8 ins. in a large disturbance off the west coast of Norway. Depressions moving eastwards or north-eastwards during day, and that over Russia increasing a good deal in depth. Another large disturbance approaching Ireland during the night.

IV.—GENERAL NOTES, etc.

The general distribution of pressure was again of a very unsettled type throughout the period. Numerous depressions appeared over the United Kingdom and northern and central Europe, while other systems of considerable importance were observed over the Mediterranean and Italy. The direction of the wind varied a good deal, but there was, as a rule, a decided westerly current in the far south and an easterly current in the far north. Strong winds or gales were of frequent occurrence in most regions, but both in the extreme south-east and north-east of our area the wind had little strength. Temperature was very unsteady, the changes within twenty-four hours being sometimes very large. Severe frost continued over northern Russia, Finland, and the northern parts of Scandinavia, but over the central countries the thermometer rarely fell below 32°. Rain was very general over all the more southern and south-western countries, while in the north and north-east a good deal of snow was experienced. No improvement in the general situation had taken place at the end of the period, for while a depression had reached a position off the west of Norway other systems of low pressure were already approaching our own western coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from Observations made at 8 a.m. in the British Islands, Belgium, Holland and Spain; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; and at 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands, Belgium and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway, and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 38.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	20·0	+ 5·0	31	+ 8
STRATHPEFFER SPA	25·7	+ 9·5	39	+ 14
EDINBURGH	15·0	0·0	22	0
COCKLE PARK	25·3	—	37	—
NEWCASTLE-ON-TYNE	17·8	—	26	—
YORK	9·9	- 5·7	15	- 8
SKEGNESS	21·0	—	30	—
CROMER	17·9	—	26	—
LOWESTOFT	25·7	—	37	—
DUNMOW	14·0	—	20	—
SHEFFIELD	19·3	—	28	—
WORKSOP	11·8	- 3·8	17	- 6
THURCASTON	18·4	+ 2·2	27	+ 3
MARGATE	19·5	+ 0·7	28	+ 1
BROADSTAIRS	20·8	—	30	—
RAMSGATE	22·4	—	22	—
EASTBOURNE	19·9	+ 0·2	28	0
BRIGHTON	17·7	- 2·7	25	- 3
WORTHING	18·1	—	26	—
BOGNOR	24·0†	—	34†	—
WESTBOURNE	26·1†	+ 5·2	37†	+ 7
VENTNOR HOSPITAL	24·2	+ 2·7	35	+ 4
BOURNEMOUTH	26·6	—	38	—
MARLBOROUGH	15·9	+ 0·1	23	0
SOUTHPORT	12·9	—	19	—
RHYL	11·0	—	16	—
ABERDOVEY	16·4†	—	24†	—
TENBY	12·7	- 8·8	18	- 13
TORQUAY	22·8	+ 3·3	33	+ 5
NEWQUAY	14·8	- 6·1	21	- 9
GUERNSEY	19·8†	- 3·7	28†	- 5

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 8. EIGHTH WEEK, ENDING SATURDAY FEBRUARY 27TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 44.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	50	27	42·7	34·8	38·7	1 above	2	− 6	25	−11	35	− 19	248	− 41
	1. SCOTLAND, EAST	50	26	41·1	32·5	36·8	1 below	0	−11	36	− 2	22	− 45	313	− 17
	2. ENGLAND, N.E.	53	29	41·1	34·0	37·6	2 below	0	−13	31	− 1	33	− 40	249	− 34
	3. ENGLAND, EAST	60	28	41·9	35·8	38·9	1 below	0	−15	22	−13	38	− 43	232	− 82
	4. MIDLAND COUNTIES	58	26	41·6	34·6	38·2	2 below	0	−17	27	− 8	42	− 53	261	− 56
	5. ENGLAND, SOUTH	53	27	42·6	35·8	39·2	1 below	2	−16	22	− 5	65	− 46	194	− 48
Principal Grazing Districts.	6. SCOTLAND, WEST	49	32	43·7	36·5	40·1	0 (average)	5	− 7	20	− 8	52	− 30	192	− 43
	7. ENGLAND, N.W.	54	30	42·5	36·0	39·3	1 below	1	−12	22	− 5	41	− 44	210	− 22
	8. ENGLAND, S.W.	54	30	44·9	38·1	41·5	1 below	8	−12	16	− 5	128	− 8	133	− 47
	9. IRELAND, NORTH	52	32	47·0	38·7	42·9	2 above	20	+ 3	9	−15	66	− 50	196	− 10
	10. IRELAND, SOUTH	57	30	49·0	41·1	45·1	2 above	25	+ 2	3	−14	140	− 30	138	− 14
	— CHANNEL ISLANDS	54	34	47·4	41·2	44·3	0 (average)	19	− 7	2	− 7	182	− 14	30	− 49

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 44.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	8	2 less	43*	+ 5	9·4	+ 0·1	9	− 7	13	−11	55	− 26	12	− 6
	1. SCOTLAND, EAST	4	8	2 more	36	+ 5	5·3	+ 0·5	4	−15	6	−21	62	− 45	13	−10
	2. ENGLAND, N.E.	3	2	2 less	34	+ 5	4·0	+ 0·7	2	−17	3	−24	75	− 35	15	− 7
	3. ENGLAND, EAST	1	less than half	4 less	36	+ 5	4·4	+ 1·2	6	−15	9	−21	94	− 27	19	− 6
	4. MIDLAND COUNTIES	3	3	2 less	41	+13	6·1	+ 2·1	5	−13	6	−17	69	− 34	14	− 7
	5. ENGLAND, SOUTH	3	1	4 less	44	+15	7·4	+ 3·0	13	− 6	18	− 9	95	− 17	19	− 3
Principal Grazing Districts.	6. SCOTLAND, WEST	5	13	3 more	40	+ 6	9·5	+ 0·6	4	−15	5	−20	54	− 43	11	− 9
	7. ENGLAND, N.W.	3	6	0 (average)	40	+ 8	7·1	+ 2·0	3	−15	5	−21	65	− 34	13	− 7
	8. ENGLAND, S.W.	4	5	2 less	44	+11	9·9	+ 3·4	10	−13	14	−18	89	− 38	18	− 8
	9. IRELAND, NORTH	6	10	3 more	45	+ 8	7·7	+ 2·1	10	− 8	14	−11	60	− 47	12	−10
	10. IRELAND, SOUTH	5	9	2 more	45	+ 9	9·2	+ 2·1	10	−11	14	−15	83	− 40	17	− 8
	— CHANNEL ISLANDS	3	3	3 less	48	+12	10·6	+ 5·0	20	− 7	27	− 9	116	− 32	22	− 6

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather this week was dull in all districts, especially in the north and east of Great Britain. A considerable quantity of rain was experienced in Ireland and in many parts of Scotland, but over England the conditions generally were drier. Heavy snow and some sleet occurred, however, in the central and northern counties on Friday, and snow showers were very prevalent on the following day in the English districts, as well as in the east of Scotland.

Temperature was high over the whole Kingdom during the first two days, and continued fairly high in Ireland and the extreme north of Scotland throughout the week, but elsewhere it fell suddenly and became very low. As a result of this change, the averages were 1° or 2° below the mean over the Kingdom generally, just equal to it in Scotland W. and the Channel Islands, and a little above it in Ireland and the north of Scotland. The highest of the maxima, which occurred on Sunday, ranged from 60° in England E. (at Cambridge) and 58° in the Midland Counties, to 50° in Scotland N. and E., and to 49° in Scotland W. The lowest of the minima, registered towards the end of the week, varied from 26° in Scotland E. and the Midland Counties, to 32° in Ireland N. and 34° in the Channel Islands. The low average temperature during the latter half of the period was due rather to the absence of heat in the daytime than to the severity of the nights.

Rainfall exceeded the mean in Ireland and the east and west of Scotland, and just equalled it in England N.W., but in all other localities there was a deficit.

Bright Sunshine was greatly deficient in all districts. The percentage of the possible duration ranged from 27 in the Channel Islands and 18 in England S., to 6 in the Midland Counties and Scotland E., 5 in Scotland W. and England N.W., and to only 3 in England N.E.

Barometer and Wind. Early in the week a rather deep depression travelled quickly from off our north-west coasts to Denmark and North Germany, its passage over our Islands being marked by strong South-Westerly to Westerly or North-Westerly winds generally, and by gales in a few places. A change then took place in the distribution of pressure, an anticyclone forming quickly over Scandinavia and extending southwards over the greater part of the United Kingdom. This condition, with its Southerly winds in Ireland and Scotland and its Easterly or North-Easterly winds over England, continued until Thursday night, when a well-marked "V" shaped depression appeared over the Irish Sea and its vicinity, the winds at the same time becoming Northerly in the west, and Southerly or South-Easterly in England. This disturbance subsequently became divided, the southern portion moving southwards to France, and the northern part dispersing.

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II.—DATA from which the SUMMARY on page 43 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	43	31	40·1	34·3	37·2	− 0·9	0	34	4	0·42	− 0·31	*	*	*	*
	Stornoway	47	30	43·1	35·3	39·2	0·0	3	24	6	1·80	+ 0·90	9·6	− 8·8	14	− 13
	Wick	47	27	43·4	35·0	39·2	+ 0·8	4	25	5	0·45	− 0·05	*	*	*	*
	Lairg 𝔖	47	29	41·7	32·4	37·1	+ 1·1	0	34	5	1·25	+ 0·53	*	*	*	*
	Glencarron 𝔖	50	30	42·7	33·5	38·1	+ 0·8	2	30	5	0·72	− 0·93	*	*	*	*
	Fort Augustus 𝔖	47	?32	?44·0	?35·9	?40·0	+ 1·4	6	23	3	0·31	− 0·57	11·0	− 1·6	16	− 2
	Fort William	47	32	43·8	37·0	40·4	+ 1·0	5	19	4	0·93	− 0·81	8·0	− 8·0	11	− 11
1. SCOTLAND, E.	Nairn	47	29	42·9	33·6	38·3	− 0·2	3	30	5	0·58	+ 0·20	*	*	*	*
	Aberdeen	43	33	40·0	34·3	37·2	− 1·5	0	34	3	0·85	+ 0·31	3·2	− 18·2	5	− 26
	Braemar 𝔖	42	26	37·4	28·9	33·2	− 2·0	0	62	4	0·31	− 0·35	*	*	*	*
	Ochtertyre 𝔖	50	28	41·0	32·3	36·7	− 1·8	0	37	6	1·30	+ 0·51	*	*	*	*
	Leith 𝔖	49	32	44·0	34·0	39·0	− 1·3	6	29	4	0·70	+ 0·35	*	*	*	*
	Marchmont 𝔖	46	29	41·1	32·1	36·6	− 1·1	0	38	4	0·75	+ 0·18	1·7	− 17·7	2	− 25
2. ENGLAND, N.E.	Alnwick Castle	49	31	40·1	33·9	37·0	− 1·8	0	35	4	0·63	+ 0·09	*	*	*	*
	Durham	50	30	39·4	32·5	36·0	− 2·7	0	42	4	0·23	− 0·17	1·0	− 18·5	1	− 26
	Shields	49	30	40·3	34·6	37·5	− 2·1	0	32	4	0·44	+ 0·06	*	*	*	*
	Scarborough 𝔐	53	29	43·3	33·5	38·4	− 1·3	4	31	5	0·18	− 0·26	0·2	—	0	—
	Spurn Head	50	30	41·6	34·7	38·2	− 1·3	0	27	1	0·02	− 0·31	*	*	*	*
	Lincoln	53	30	42·1	35·0	38·6	− 1·1	0	25	2	0·06	− 0·30	*	*	*	*
	Fulbeck (Lincolnshire)	—	—	—	—	—	—	—	—	3	0·04	− 0·32	2·0	—	3	—
3. ENGLAND, E.	Hillington 𝔐	54	28	41·8	34·0	37·9	− 1·6	0	29	0	0·00	− 0·43	2·5	− 18·3	4	− 25
	Yarmouth	53	33	40·9	36·7	38·8	− 0·2	0	22	1	0·04	− 0·38	*	*	*	*
	Geldeston	56	29	42·3	35·0	38·7	− 1·2	1	25	1	0·01	− 0·35	3·4	− 18·6	5	− 25
	Cambridge	60	29	43·7	35·7	39·7	− 0·2	5	23	0	0·00	− 0·34	6·4	− 15·2	9	− 21
	Felixstowe	53	30	42·0	36·7	39·4	− 0·3	0	18	1	0·09	—	4·3†	—	6†	—
	Clacton-on-Sea	51	31	41·0	36·3	38·7	− 1·3	0	23	1	0·01	—	6·6	—	9	—
	Rothamsted	54	28	41·5	34·5	38·0	− 1·4	0	28	1	0·02	− 0·43	11·2	− 9·2	15	− 13
	Shoeburyness	53	32	42·3	37·3	39·8	− 0·4	1	17	0	0·00	− 0·30	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	50	29	38·7	33·0	35·9	− 2·6	0	43	3	0·56	− 0·03	1·1	—	2	—
	Bawtry (Hesley Hall)	52	29	41·6	34·3	38·0	− 1·8	0	28	3	0·08	− 0·29	*	*	*	*
	Nottingham	52	30	43·1	35·0	39·1	− 0·8	3	26	5	0·13	− 0·27	4·9	—	7	—
	Colly Weston (Stamford)	58	26	42·4	34·7	38·6	− 0·9	1	26	0	0·00	− 0·41	*	*	*	*
	Cheadle 𝔐	51	29	39·2	33·4	36·3	− 2·2	0	40	3	0·43	− 0·13	*	*	*	*
	Birmingham (Edgbaston)	51	30	40·3	34·8	37·6	− 2·1	0	31	4	0·41	+ 0·03	0·7	—	1	—
	Shrewsbury	55	32	42·6	35·7	39·2	− 1·3	2	23	4	0·58	—	*	*	*	*
	Hereford 𝔐	54	31	43·0	36·5	39·8	− 0·6	3	20	3	0·35	− 0·12	*	*	*	*
	Cirencester	54	28	42·5	33·9	38·2	− 0·8	1	29	4	0·44	− 0·11	9·5	− 11·7	13	− 16
	Oxford	54	30	42·9	35·1	39·0	− 1·5	3	25	2	0·06	− 0·37	10·1	− 9·9	14	− 14
5. ENGLAND, S.	London	53	31	43·4	36·9	40·2	− 0·7	4	19	1	0·03	− 0·36	5·1‡	− 7·7‡	7‡	− 11‡
	Swarraton (Alresford) 𝔐	51	27	43·1	33·3	38·2	− 1·1	3	31	4	0·08	− 0·52	*	*	*	*
	Tunbridge Wells 𝔐	50	28	40·9	34·0	37·5	− 1·5	0	32	3	0·07	—	10·8	—	15	—
	Dungeness	48	32	41·6	37·0	39·3	− 1·2	0	19	2	0·04	− 0·28	3·1	—	4	—
	Hastings (St. Leonards)	48	31	41·0	35·3	38·2	− 2·5	0	27	4	0·12	− 0·37	6·0	− 18·4	8	− 25
	Southampton	52	30	45·9	36·4	41·2	− 0·7	11	23	3	0·14	− 0·41	21·9	− 0·3	30	0
	Portland Bill	50	33	43·1	38·6	40·9	− 2·2	3	13	3	0·31	—	*	*	*	*
	Shaftesbury 𝔐	49	29	42·0	34·7	38·4	− 1·3	0	25	4	0·15	− 0·43	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	47	34	44·7	36·1	40·4	0·0	8	23	6	1·82	+ 0·27	*	*	*	*
	Glasgow	48	34	42·8	36·0	39·4	+ 0·1	2	22	4	0·90	+ 0·20	1·1	− 12·6	2	− 18
	Cally 𝔖	49	34	44·5	36·9	40·7	+ 1·2	7	20	6	1·95	+ 1·02	*	*	*	*
	Aspatria	48	32	42·1	35·3	38·7	− 1·0	0	24	3	0·49	—	5·0	—	7	—
	Douglas (Isle of Man)	49	36	44·3	38·4	41·4	+ 0·4	6	15	5	1·35	+ 0·59	4·6	− 16·6	6	− 23
7. ENGLAND, N.W.	Newton Rigg	49	30	39·8	32·9	36·4	− 1·3	0	39	2	0·37	—	3·1	—	4	—
	Stonyhurst	50	32	40·3	35·2	37·8	− 1·6	0	29	2	0·61	− 0·21	5·2	− 12·9	7	− 18
	Blackpool 𝔐	51	30	42·3	34·4	38·4	− 1·6	1	27	4	0·78	+ 0·24	4·9	− 13·5	7	− 19
	Manchester (Prestwich)	51	32	40·3	35·0	37·7	− 1·8	0	30	3	0·61	+ 0·07	1·8	—	2	—
	Liverpool Obsy. (Bidston)	53	32	42·1	35·6	38·9	− 1·6	0	23	3	0·44	+ 0·03	3·3	—	5	—
	Chester (Hawarden Bridge)	54	32	43·4	35·4	39·4	− 2·1	4	24	2	0·40	—	*	*	*	*
	Llandudno 𝔐	53	35	45·6	38·5	42·1	− 0·2	15	10	4	0·37	− 0·13	2·4	− 17·8	3	− 25
	Holyhead	49	36	44·7	40·1	42·4	+ 0·4	11	5	4	0·81	+ 0·25	*	*	*	*
	Bettws-y-Coed	51	32	44·2	37·2	40·7	− 1·3	6	18	5	0·99	—	0·4	—	1	—
8. ENGLAND, S.W.	Pembroke	50	37	45·6	41·3	43·5	+ 1·0	13	2	4	0·84	+ 0·22	8·0	− 14·8	11	− 20
	Clifton	53	32	43·7	37·5	40·6	− 1·0	5	17	4	0·32	− 0·28	*	*	*	*
	Bath	54	31	44·0	37·1	40·6	− 1·0	6	19	4	0·28	− 0·26	13·2	—	18	—
	Arlington (N. Devon)	50	30	42·4	35·4	38·9	− 1·8	1	23	4	0·71	− 0·24	*	*	*	*
	Cullompton 𝔐	54	30	44·9	36·3	40·6	− 1·2	8	22	3	0·56	− 0·10	7·0	− 13·3	10	− 19
	Falmouth	51	38	47·3	41·1	44·2	+ 0·1	19	3	3	0·37	− 0·51	10·4	− 13·8	14	− 19
	Plymouth	51	33	46·2	38·3	42·3	− 0·9	18	10	3	0·45	− 0·22	9·3	− 13·9	13	− 19
9. IRELAND, N.	Malin Head	48	36	45·7	38·0	41·9	+ 0·2	10	17	7	0·41	− 0·09	*	*	*	*
	Edenfel (Omagh)	50	33	46·3	37·7	42·0	+ 2·6	12	12	6	1·46	+ 0·86	*	*	*	*
	Blacksod Point	50	37	48·4	40·4	44·4	+ 1·2	24	4	7	1·06	+ 0·23	*	*	*	*
	Markree Castle	51	32	48·3	39·3	43·8	+ 2·6	24	8	7	0·95	+ 0·26	11·5	− 7·1	16	− 10
	Armagh	52	33	47·1	37·4	42·3	+ 1·7	21	13	5	0·91	+ 0·39	9·2	− 9·1	13	− 13
	Donaghadee	52	36	45·9	39·6	42·8	+ 1·3	16	7	5	0·91	+ 0·38	*	*	*	*
10. IRELAND, S.	Dublin	57	34	48·8	40·1	44·5	+ 1·8	25	5	3	0·42	− 0·07	12·4	− 8·7	17	− 12
	Birr Castle	53	30	48·9	39·0	44·0	+ 2·6	27	8	6	0·68	+ 0·18	8·4	− 11·1	12	− 15
	Kilkenny	53	33	46·9	41·1	44·0	+ 1·8	18	3	5	0·50	− 0·05	*	*	*	*
	Waterford	52	33	47·9	39·9	43·9	+ 1·5	22	6	3	0·93	+ 0·16	*	*	*	*
	Roche's Point	51	36	47·6	42·6	45·1	+ 0·9	22	0	7	0·60	− 0·34	*	*	*	*
	Valencia	52	37	49·7	42·9	46·3	+ 1·2	30	0	7	3·03	+ 1·90	9·3	− 12·5	13	− 17
	Killarney	56	32	52·3	42·6	47·5	+ 3·9	39	0	6	0·66	− 0·45	*	*	*	*
	Foynes	52	32	49·7	40·5	45·1	+ 1·8	28	4	4	0·66	− 0·04	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	39	50·1	43·0	46·6	+ 0·9	32	0	3	0·25	− 0·35	13·2	− 12·3	18	− 17
	Jersey	52	34	44·6	39·3	42·0	− 1·6	7	8	2	0·42	− 0·15	23·6	− 3·7	32	− 5

Stations Marked 𝔐 are in connection with the Royal Meteorological Society, and those marked 𝔖 with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

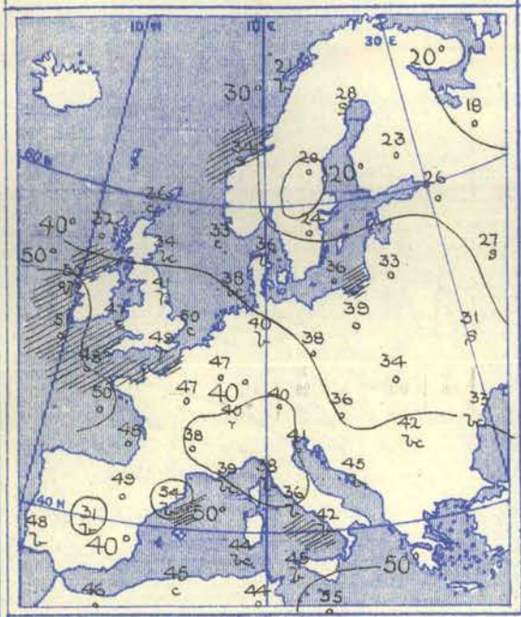
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

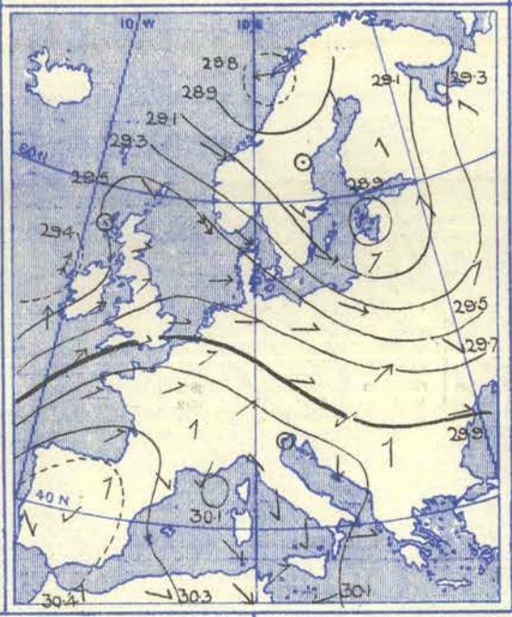
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 21st February, 1904.

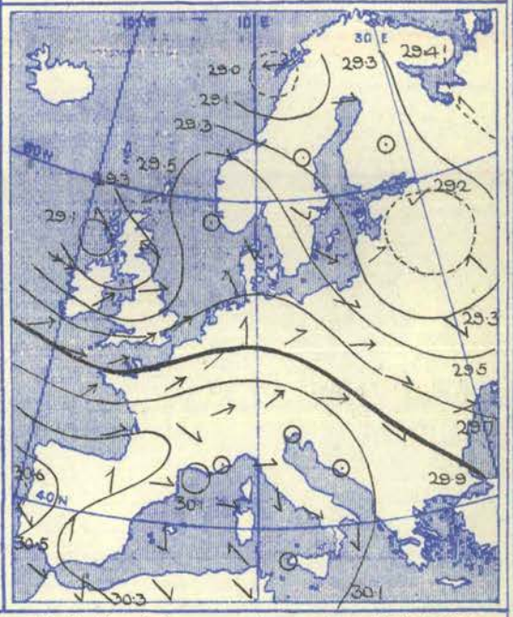
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in Denmark, Spain, Italy, and the extreme south of Russia, but dull or cloudy over the major portion of our area. Showery at some of our own stations, steady rain falling at several of those in Germany, and snow at Haparanda, Moscow, Kiev, and Cracow. Rain falling in most parts of our Islands and the west of France later, and continuing in Germany—largest amounts, 0·5 in. at Stornoway and 0·4 in. at Nairn and Frankfürt.

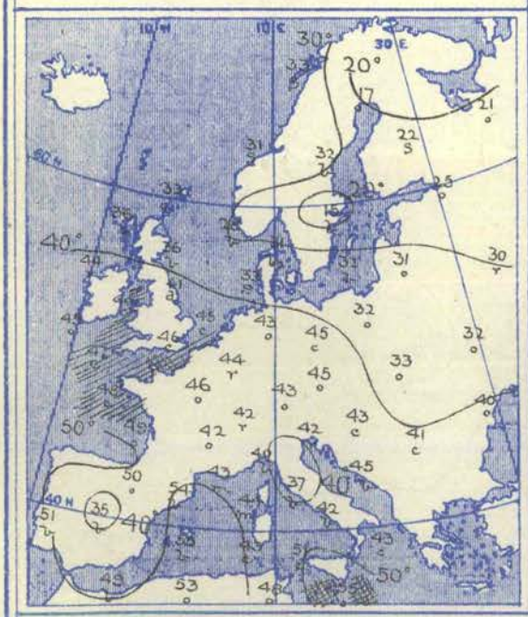
Temperature fallen in Italy, Norway, Scotland, and the north-east of England; risen generally elsewhere. Morning readings ranging from 55° at Malta and 50° in the south and west of Ireland and at a few English stations and in Brittany, to 36° at Rome, 33° at Florence, 31° at Madrid and Kiev, 30° at Nairn, 20° at Hernösand, and to 14° at Karlstad. Maxima during day 50° or above at most of our own stations, and 60° or above in the extreme south of Europe and north of Africa.

Wind at 8 a.m. strong to a gale from the Southward along our western coasts, and light to fresh from South-West or West in our northern and eastern districts. Two cyclonic circulations prevailing over northern Europe; North-Westerly winds strong to a gale on the coasts of Norway and Denmark. Variable winds of little force prevalent over the Mediterranean and southern Europe. Increasing in force from West and South-West in Ireland and England later, and from the South-Eastward and Eastward in Scotland. North-Westerly wind dying out in Norway and Denmark.

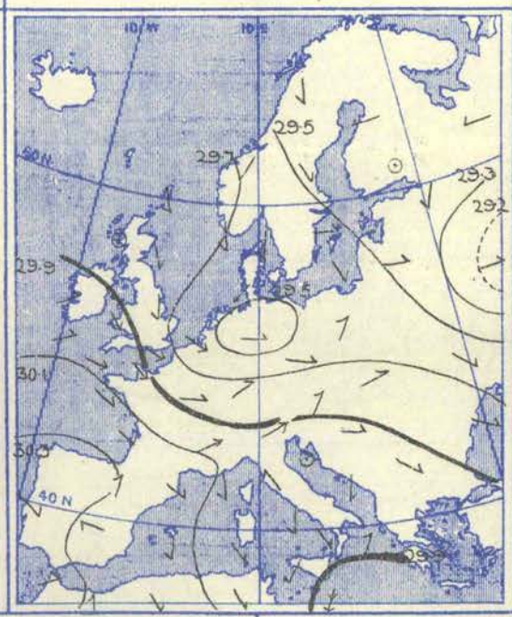
Barometer at 8 a.m. ranging from 30·4 ins. and upwards in an anticyclone over Spain, to less than 29·4 ins. in a depression off the north-west of Ireland, to about 28·9 ins. in another disturbance between the Gulfs of Riga and Finland, and to 28·7 ins. in a third near Bodö. Depression off our north-west coasts moving to the west of Scotland by evening, and subsequently at a rapid rate east-south-eastwards to North Germany. Russian disturbance travelling slowly eastwards, and that near Bodö remaining almost stationary, but becoming less deep.

Monday, 22nd February, 1904.

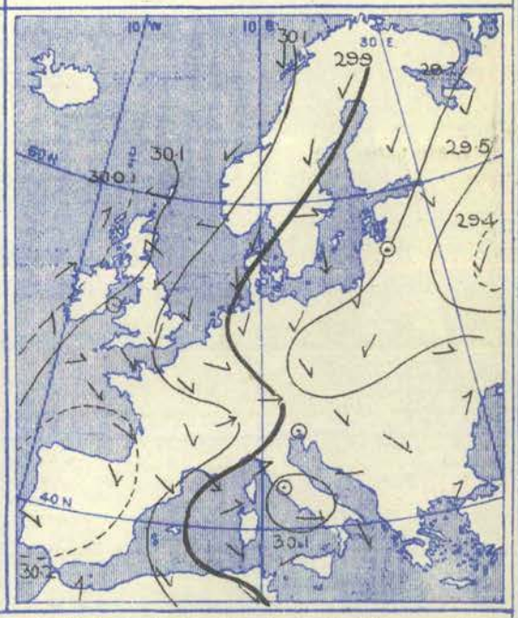
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in several parts of Scotland, Sweden, Spain, and Italy; cloudy or overcast in most other regions, and rainy at Blacksod Point, Swinemünde, Brussels, Limoges, and Aumale. Snow falling in Denmark and Finland, and also on the west and north-west coast of Norway. Slight rain experienced during day at a few of our own stations, and heavier falls of rain or snow in some German, Polish, and Russian localities.

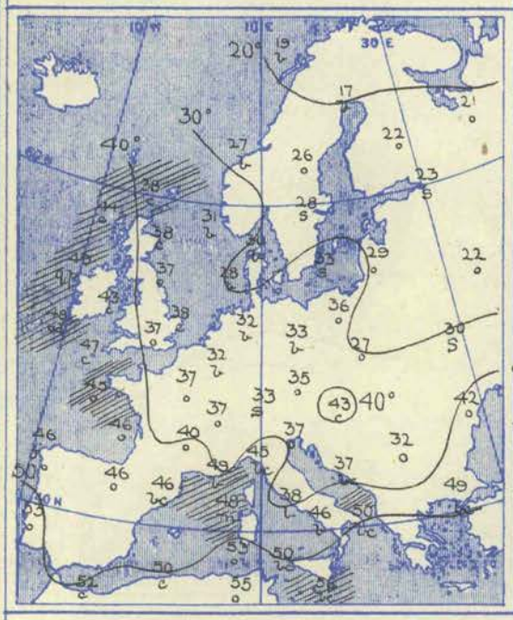
Temperature fallen over Ireland, England, and the south of Scandinavia. Readings in morning highest, 55° at Malta and Palma, 54° at Barcelona, 51° at Perpignan, and 50° at Biarritz. Lowest, (1) 10° at Karlstad, 15° at Stockholm, 17° at Haparanda, and 21° at Archangel, (2) 34° at Nairn and 39° at Parsonstown, (3) 34° at Turin and Florence, and 37° at Rome, (4) 35° at Madrid. Rising during day to 54° at Scilly, about 60° at some stations in the south of France and at Constantinople, and to 70° at Nemours.

Wind at 8 a.m. cyclonic except over the Iberian Peninsula. An extensive circulation prevailing around Denmark, and the North-Westerly to Westerly current blowing strongly over England and the Channel. Not much force as a whole, but a fresh North-North-Easterly gale reported at Malta. Wind light from West-South-West on the west coast of Ireland. Veering to the Northward over the east of England and the Netherlands later, but backing to the Southward along our western coasts.

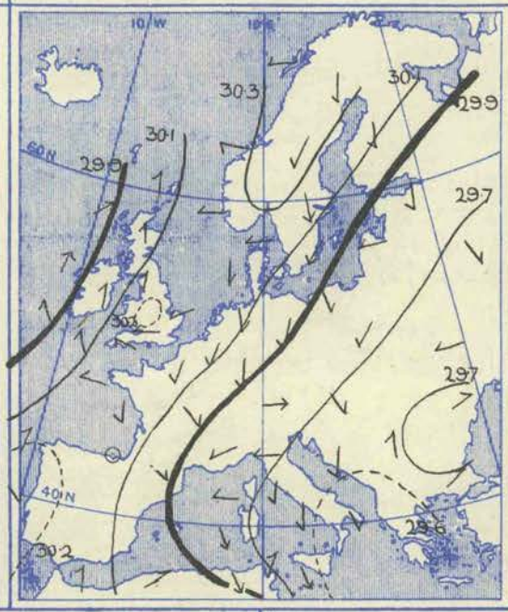
Barometer risen quickly over the north-western parts of our area. Morning readings ranging from above 30·3 ins. over the western half of the Spanish Peninsula, to below 29·8 ins. in a depression near Malta, to less than 29·5 ins. in another system centred over Denmark and North Germany, and to below 29·2 ins. in a disturbance over central Russia. Two latter depressions travelling eastwards or east-south-eastwards later, and a large anticyclone beginning to approach Scandinavia from the north-westward. Pressure increasing very briskly in the east of England, falling slightly in the west of Ireland.

Tuesday, 23rd February, 1904.

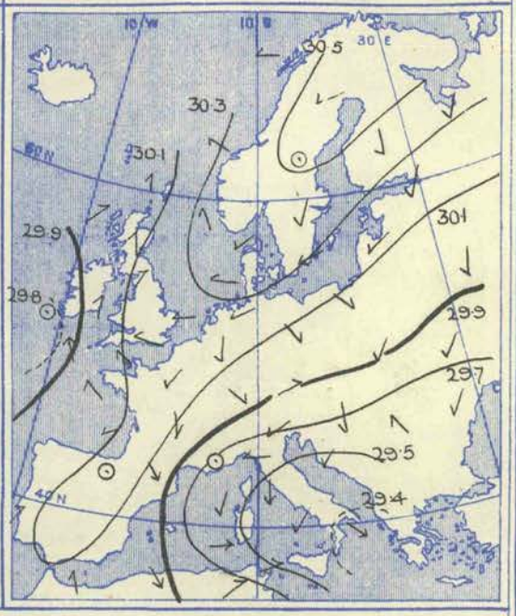
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast generally, but fine and bright in Norway, the Netherlands, most parts of Italy, and the south of France. Snow falling over the Baltic, at St. Petersburg, and at a few stations in central Europe, and rain at Valencia (Ireland) and Pesaro. Rain experienced later in the Hebrides and Ireland—as much as 1·77 ins. at Valencia—and slighter falls in several parts of central Europe and at a few Mediterranean stations.

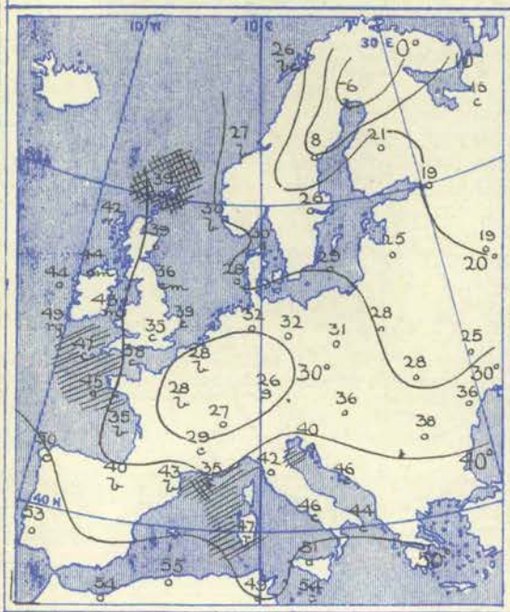
Temperature fallen generally, but risen in the south of Scandinavia, Scotland, Ireland, Italy, and Algeria. Morning values highest, 56° at Malta, 55° at La Calle, 53° at Cagliari, and 48° or 49° in the west of Ireland. Lowest, (1) 12° at Haparanda, and below 25° at most stations in the far north and north-east, (2) 31° to 33° over central England, (3) 32° at Hermanstadt, (4) 38° at Rome. Rising later to 50° in Ireland, 52° at Scilly, to between 50° and 60° in southern Europe, and to above 60° in places. Highest values, 72° at Nemours and Aumale. Continuous frost prevailing in the far north.

Wind light to fresh or strong from the Southward over our own western districts; moderate or light from some Northerly or Easterly point over Europe as a whole, but an irregular cyclonic circulation of light to strong winds prevailing over Italy and its neighbourhood. Very little change later.

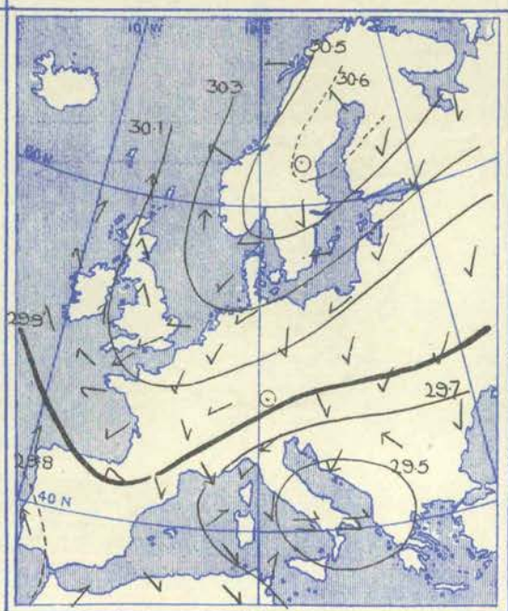
Barometer at 8 a.m. ranging from above 30·2 ins. to nearly 30·4 ins. in an anticyclone over Scandinavia, above 30·2 ins. in a small "high" over the Iberian Peninsula, and not much lower within the area intervening, to about 29·8 ins. off our north-west coasts, and to less than 29·6 ins. in a depression lying over the Balkan Peninsula and the south of Italy. Pressure increasing over Scandinavia during day, but decreasing over the Iberian Peninsula and also on our south-west coasts. Depression in the south-east of Europe becoming deeper, and gradients increasing over the Gulf of Lion.

Wednesday, 24th February, 1904.

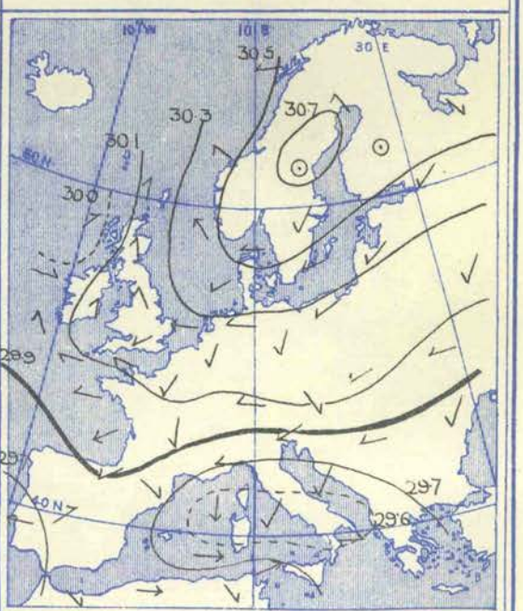
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull over our area as a whole, but bright at most French and Norwegian stations, over Belgium, and on our own south-east coasts. Rain falling at Valencia, Donaghadee, and Stornoway, and also at Leghorn and Cagliari, and snow at Munich, Swinemünde, and Neu-Fahrwasser. Considerable amounts of rain falling later on our extreme west and north-west coasts and slighter quantities at some stations in Italy, but day dry over our area generally.

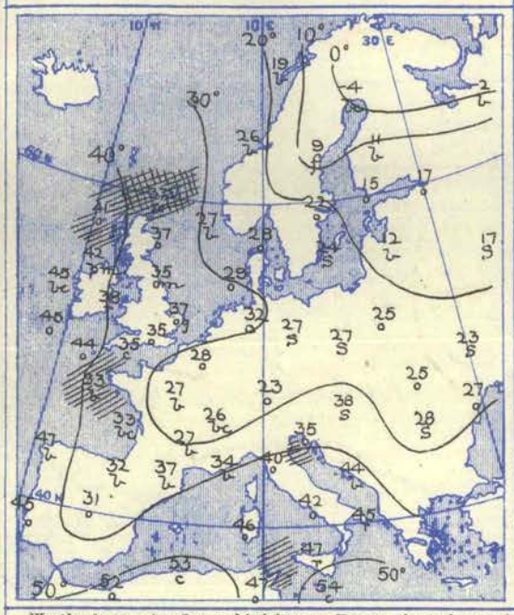
Temperature fallen in most regions. Morning readings ranging from 57° at Oran, 54° at Malta, and 53° at Lisbon, to 35° at Cape Sicié and over central England, to about 30° over central Europe, 19° at Moscow and St. Petersburg, 16° at Archangel, and to −6° at Haparanda. Maxima during day as high as 73° at Barcelona, 68° at Nemours and Sfax, and 61° at Palermo and Palma. Below 50° at several southern stations, below 40° over central Europe, and below 32° in the north and north-east. Thermometer just touching 50° at some of our own south-western and western stations.

Wind at 8 a.m. showing a moderate to fresh or strong cyclonic circulation over Italy and its neighbourhood, but an anticyclonic movement over our area generally. Light or moderate from the North-Eastward over our south-eastern and southern coasts and the major portion of Europe, but fresh or strong from South-East and South in the west and north of our Islands. No important change taking place during day.

Barometer risen except over the more southern countries. Morning readings ranging from above 30·6 ins. over the north of Sweden in the central portion of an anticyclone, to less than 29·8 ins. in the south of Portugal, and to below 29·5 ins. in a depression centred over the Adriatic. No change later in the general distribution of pressure, but a steady fall of the mercury taking place over the Iberian Peninsula and its neighbourhood. Depression over the Adriatic becoming elongated.

Thursday, 25th February, 1904.

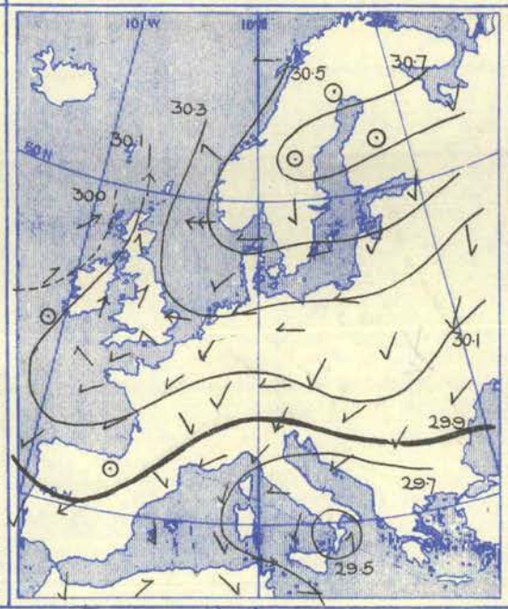
Temperature and Weather. 8 a.m.



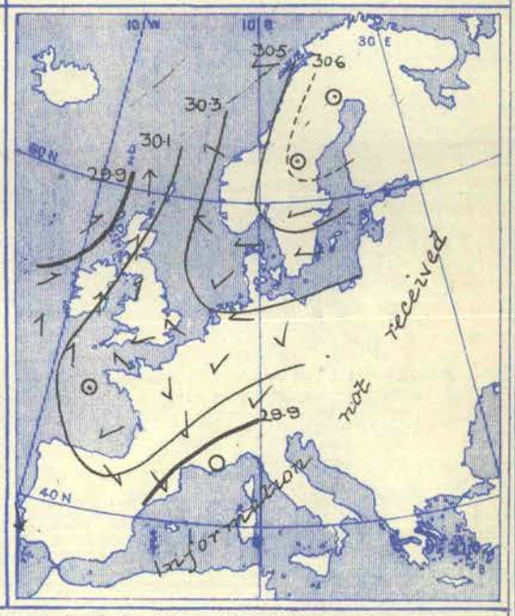
Weather in morning fine and bright over France, the major portion of Scandinavia and Finland, and at some Spanish and Portuguese stations, dull or very cloudy elsewhere Slight rain or snow falling on parts of our north-western coasts, and snow at Wisby and in many German and Austro-Hungarian regions, as well as at Kiev and Moscow. Rainy over the southern half of Italy. Rather heavy falls of rain, sleet, or snow occurring later in the north and west of our Islands, and smaller amounts at some of our south-eastern and southern stations.

Temperature fallen very generally. Readings at 8 a.m. highest, 54° at Malta, 53° at Algiers, and 52° at Sanguinaires. Lowest, (1) −4° at Haparanda, +9° at Hernösand, 12° at Riga, 17° at Moscow and St. Petersburg, and 19° at Bodö, (2) between 26° and 32° over central Europe and the inland parts of France, (3) 31° at Madrid, (4) 33° over central England. Remaining below 40° all day in most parts of Great Britain, the Netherlands, Germany, and the east of France, but just touching 50° at Nice, and rising to 57° at Lisbon. Severe frost continuing throughout Scandinavia.

Barometer and Wind. 8 a.m.



6 p.m.

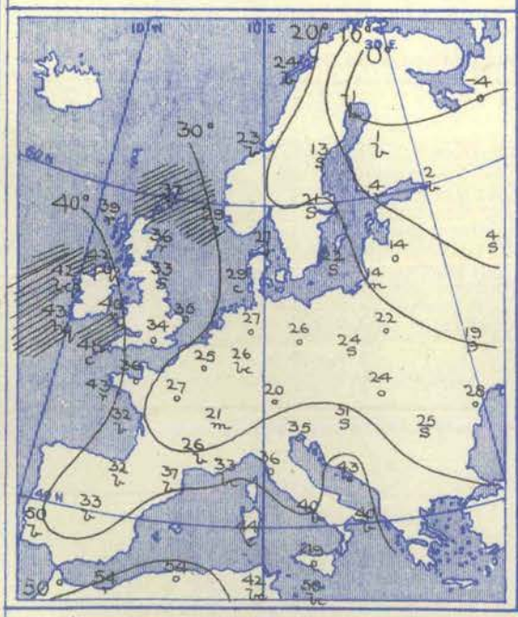


Wind at 8 a.m. light to fresh from some Southerly point over Ireland, Wales, and Scotland, and Easterly over the greater part of England. North-Easterly to Easterly in nearly all Continental regions, and strong to a gale in the south of Norway. A cyclonic circulation still prevailing over Italy and its vicinity. Southerly wind encroaching to the whole of England during the ensuing twenty-four hours, but veering to North-West and North on our western coasts, and blowing freshly or strongly.

Barometer in morning highest, 30·7 ins. to 30·2 ins. in an anticyclone extending from Finland and the north of Russia to our own south-west coasts and Brittany. Lowest, 29·5 ins. and less in a depression near Brindisi, and below 30·0 ins. off our own north-west coasts. Anticyclone receding somewhat eastward and north-eastward by evening, and a large "V" shaped depression advancing over our Islands from the westward during the night.

Friday, 26th February, 1904.

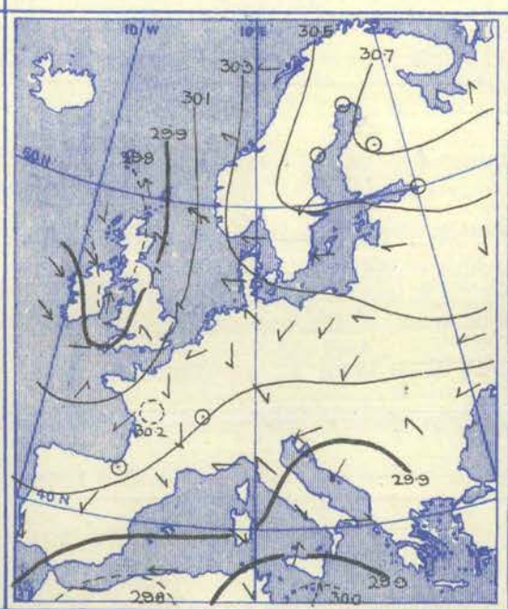
Temperature and Weather. 8 a.m.



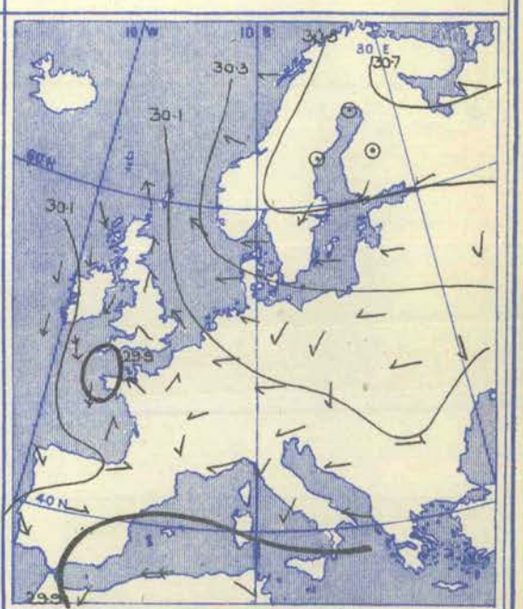
Weather at a.m. fair or fine in a few scattered parts of our area, but cloudy or dull generally. Rain, sleet, or snow falling in most British localities, rain in Brittany, at Nemours, and Barcelona, and snow in Sweden and at many German, Austrian, Hungarian, and Russian stations. Considerable falls of snow or sleet in many parts of England later, of rain in the west of France, and of snow in various other Continental regions.

Temperature fallen in most places. Readings in morning highest, 54° or 55° in Algeria and 50° at Lisbon and Malta. Lowest, (1) −4° at Archangel, −1° at Haparanda, +2° at St. Petersburg, 4° at Moscow, and 14° at Riga and Memel, (2) 20° at Munich, 21° at Belfort, 23° at Limoges, 32° at Biarritz, and 33° at Madrid, (3) 32° over central England, (4) 34° at Rome, and 40° at Brindisi. Maxima during day not many degrees above the freezing point over England, and several degrees below it over central and northern Europe, but thermometer rising to 57° at Nice, 60° at Malta, and 66° at Nemours.

Barometer and Wind. 8 a.m.



6 p.m.

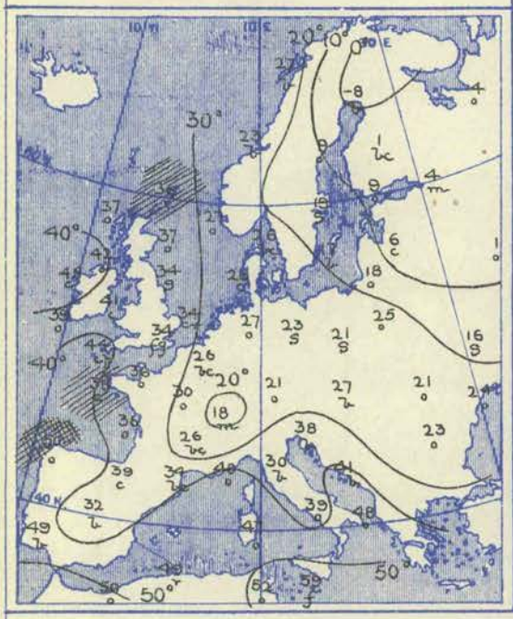


Wind at 8 a.m. light to fresh from the North-Westward in the Hebrides, Ireland, and South Wales, and moderate to fresh from the Southward or South-Eastward over North Wales and Great Britain generally. Rather variable on the Continent and the shores of the Mediterranean. An Easterly gale prevailing in the south-west of Norway and also at Algiers. Gale in Norway subsiding later, but not much other change occurring on the Continent. Wind veering to North on our west coasts and in Brittany, and backing to South-East over England.

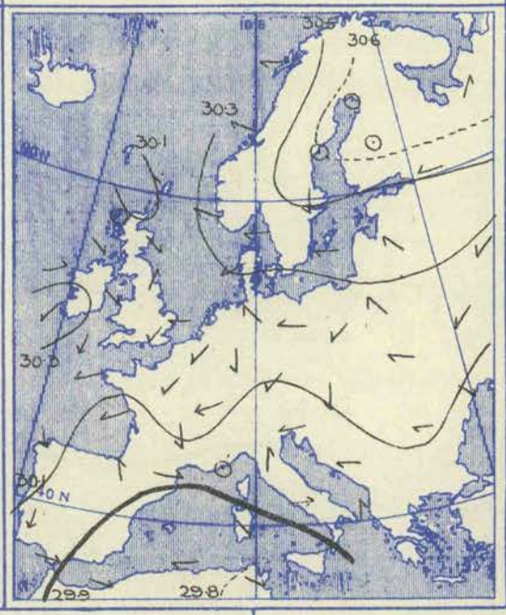
Barometer in morning ranging from above 30·7 ins. in Finland to 29·8 ins. and less (1) in a large "V" shaped depression extending from the Faröe Isles to South Wales, and (2) in a disturbance over Algeria. "V" shaped depression breaking into two portions later, the southern part moving southwards and forming a separate system centred over Brittany and the south-west of England, and the northern part dispersing. Scarcely any change taking place within the area of high pressure.

Saturday, 27th February, 1904.

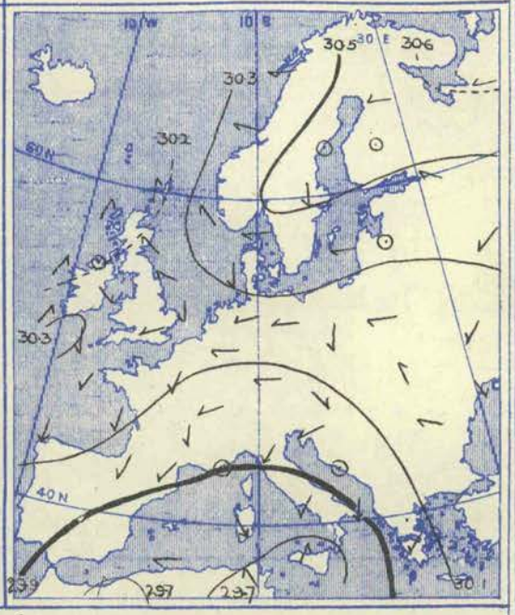
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast generally, but bright in the extreme north of Europe and at several stations in the Spanish Peninsula. Rain falling at Sumburgh Head, snow or sleet at Shields and Dungeness, snow in the south of Sweden, at Kiev, and in many parts of central Europe. Snow also falling at Aumale. Snow showers during day in most parts of Great Britain, and rain in Ireland. More than half an inch of rain experienced at Brindisi, and more than an inch at Nemours.

Temperature fallen as a whole. Morning readings highest, 59° at Malta, 54° at Sanguinaires, and 50° at Corunna. Lowest, (1) −8° at Haparanda, −1° at Helsingfors, +1° at Moscow, 6° at Riga, 16° at Karlstad and in Little Russia, (2) 18° at Belfort, 21° at Munich, (3) 30° at Oxford, 33° at Parsonstown, (4) 30° at Florence, 33° at Rome, and 32° at Madrid. Rising to nearly 50° in the west of Ireland and the north-east and east of Scotland during day, but remaining below 40° at most English stations. Maxima about 60° at some extreme southern stations, and thermometer touching 72° at Sfax.

Wind in morning rather variable in some localities, but mainly from some North-Easterly or Easterly point and light or moderate in force. Strong from the Northward on the Atlantic coasts of the Iberian Peninsula. Wind becoming Northerly in Italy later, and blowing freshly or strongly. No other important change.

Barometer risen briskly on our north and north-west coasts. Distribution of pressure at 8 a.m. rather irregular, readings ranging from above 30·6 ins. in Finland and above 30·3 ins. in the south of Ireland to below 30·0 ins. in the extreme north of Scotland, and to less than 29·8 ins. in a depression over the central portion of the Mediterranean. Pressure decreasing in the last mentioned region later and gradients increasing, but very little change taking place in the general distribution.

IV.—GENERAL NOTES, etc.

At the commencement of the week the barometric pressure was highest over the Spanish Peninsula and the adjacent portion of the Atlantic and lowest in some deep depressions over northern Europe and in another approaching our north-western coasts. The general distribution underwent little modification until Tuesday, when the barometer rose rapidly in the north of Europe and gave way in the south-west. Pressure thus became highest over Scandinavia, whence a large anticyclone extended, with a gradually decreasing barometric level to our south-west coasts and Brittany, and the low pressure systems were confined to the Mediterranean and the extreme south and to the Atlantic off our most western and north-western coasts. With this change the wind became Northerly to Easterly over our area as a whole, but Southerly on our own western and northern coasts. By Friday morning another change had occurred. The anticyclone had receded eastwards during the night while a large and well-defined "V" shaped disturbance had advanced to our western districts, and the Southerly winds in Ireland had been displaced by a fresh or strong Northerly current. This system subsequently broke into two, the northern part dispersing, and the southern moving southwards to Brittany and the west of France. Temperature became low generally soon after the commencement of the week and decreased from day to day until by the end of the period it was much below the normal level. Rain or snow was experienced over our Islands during the presence of the "V" shaped depression and slight falls of snow or rain were not uncommon on the Continent, but, taken as a whole, the amount of precipitation was not large. At Valencia (Ireland), however, as much as 1·77 ins. was measured at 8 a.m. on Wednesday.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 44.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	9·4	− 8·0	14	− 12
STRATHPEFFER SPA	6·5	− 10·8	9	− 15
EDINBURGH	8·3	− 8·3	12	− 12
COCKLE PARK	3·8	—	5	—
NEWCASTLE-ON-TYNE	1·5	—	2	—
YORK	2·2	− 15·5	3	− 22
SKEGNESS	1·3	—	2	—
CROMER	7·3	—	10	—
LOWESTOFT	6·9	—	10	—
DUNMOW	6·9	—	10	—
SHEFFIELD	2·9	—	4	—
WORKSOP	2·6	− 15·0	4	− 21
THURCASTON	4·2	− 13·7	6	− 19
MARGATE	3·8	− 17·4	5	− 24
BROADSTAIRS	2·4	—	3	—
RAMSGATE	3·0	—	4	—
EASTBOURNE	9·1	− 13·5	12	− 19
BRIGHTON	11·2	− 11·8	15	− 16
WORTHING	19·6	—	27	—
BOGNOR	25·7†	—	35†	—
WESTBOURNE	23·2†	− 0·6	32†	− 1
VENTNOR HOSPITAL	20·3	− 4·2	28	− 6
BOURNEMOUTH	24·4	—	33	—
MARLBOROUGH	22·4	+ 4·6	31	+ 6
SOUTHPORT	4·8	—	7	—
RHYL	2·0	—	3	—
ABERDOVEY	5·5†	—	8†	—
TENBY	6·2	− 18·1	9	− 25
TORQUAY	10·5	− 12·4	14	− 17
NEWQUAY	12·9	− 10·7	18	− 15
GUERNSEY	22·9†	− 3·4	31†	− 5

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

Reports received too late for insertion in their proper places.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Feb. 13th, 1904.	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	24·3	—	36	—

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 9. NINTH WEEK, ENDING SATURDAY MARCH 5TH, 1904. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 50.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	47	19	41·3	30·7	35·9	2 below	0	− 9	43	+ 8	35	− 28	291	− 33
	1. SCOTLAND, EAST	45	18	38·4	28·0	33·0	5 below	0	−13	63	+26	22	− 58	376	+ 9
	2. ENGLAND, N.E.	41	24	37·3	31·2	34·2	5 below	0	−14	55	+24	33	− 54	304	− 10
	3. ENGLAND, EAST	43	22	37·1	30·7	33·8	6 below	0	−17	57	+23	38	− 60	289	− 59
	4. MIDLAND COUNTIES	42	20	36·5	28·8	32·5	7 below	0	−19	67	+33	42	− 72	328	− 23
	5. ENGLAND, SOUTH	42	24	36·9	29·9	33·3	8 below	0	−20	61	+35	65	− 66	255	− 13
Principal Grazing Districts.	6. SCOTLAND, WEST	43	25	38·2	30·7	34·3	6 below	0	−12	54	+27	52	− 42	246	− 16
	7. ENGLAND, N.W.	44	20	37·3	29·9	33·5	7 below	0	−14	60	+34	41	− 58	270	+ 12
	8. ENGLAND, S.W.	43	23	38·1	31·2	34·5	8 below	0	−21	53	+32	128	− 29	186	− 15
	9. IRELAND, NORTH	48	19	40·4	32·9	36·6	5 below	0	18	38	+14	66	− 68	234	+ 4
	10. IRELAND, SOUTH	52	23	41·8	33·5	37·6	6 below	0	−24	31	+14	140	− 54	169	0
	— CHANNEL ISLANDS	46	31	41·9	34·5	38·1	7 below	0	−26	27	+19	182	− 40	57	− 30

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 50.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	less than half	10 less	44	+ 2	9·4	− 0·8	25	+ 8	34	+10	80	− 19	15	− 4
	1. SCOTLAND, EAST	4	2	3 less	40	+ 6	5·5	+ 0·2	14	− 7	18	−10	76	− 51	14	−10
	2. ENGLAND, N.E.	6	4	0 (average)	40	+ 8	4·4	+ 0·7	8	−11	11	−14	83	− 45	15	− 8
	3. ENGLAND, EAST	5	5	1 more	41	+ 7	4·9	+ 1·3	9	−14	11	−18	103	− 41	18	− 7
	4. MIDLAND COUNTIES	5	3	1 less	46	+14	6·4	+ 2·0	8	−13	11	−17	77	− 47	14	− 8
	5. ENGLAND, SOUTH	5	6	1 more	49	+17	8·0	+ 3·1	8	−16	10	21	104*	− 33	18	− 6
Principal Grazing Districts.	6. SCOTLAND, WEST	1	less than half	9 less	41	+ 3	9·5	− 0·4	17	− 4	23	− 5	71	− 47	13	− 9
	7. ENGLAND, N.W.	1	less than half	5 less	41	+ 6	7·1	+ 1·4	17	− 4	22	− 6	82	− 38	15	− 7
	8. ENGLAND, S.W.	4	5	2 less	48	+11	10·4	+ 3·3	11	−15	14	−19	100	− 53	17	− 9
	9. IRELAND, NORTH	2	2	4 less	47	+ 6	7·9	+ 1·7	14	− 6	18	− 8	74	− 53	13	− 9
	10. IRELAND, SOUTH	4	8	1 more	49	+ 9	10·0	+ 2·1	15	− 9	20	−11	98	− 48	17	− 8
	— CHANNEL ISLANDS	6	8	2 more	54	+14	11·4	+ 5·3	16	−13	21	−17	132	− 45	22	− 8

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather. During the greater part of the week the sky was densely clouded in all districts except the north of Scotland. Cold rain, sleet, or snow showers occurred frequently in the south of Ireland and most parts of Great Britain, but the falls were generally very slight.

Temperature was much below the mean, the deficit ranging from 5° in Scotland E., England N.E., and Ireland N., to as much as 8° in England S. and S.W. In Scotland N., however, the deficit was no more than 2°. The highest of the maxima, which were registered on Sunday in Ireland and at most Scotch stations, and on Saturday in England, varied from 52° in Ireland S. to 41° in England N.E. The lowest of the minima were recorded about the middle of the week, and ranged from 18° in Scotland E., 19° in Scotland N. and Ireland N., and 20° in the Midland Counties and England N.W., to 25° in Scotland W., and to 31° in the Channel Islands.

Rainfall was slightly in excess of the mean in England S. and E., Ireland S., and the Channel Islands, and just equal to it in England N.E., but less in all other parts of the Kingdom. In Scotland N. and W. and in England N.W. the fall was scarcely appreciable.

Bright Sunshine was considerably less than the mean in all districts excepting Scotland N., the deficit being especially large over England. The percentage of the possible duration ranged from 34 in Scotland N., 23 in Scotland W. and 21 in the Channel Islands, to 10 in England S. At many southern stations bright sunshine was entirely absent during the latter days of the week.

Barometer and Wind. During the whole of this period a large anticyclone, with the barometer at its centre standing at one time above 31·15 ins., extended south-westwards from Scandinavia and northern Russia to the greater part of the United Kingdom. The only clearly defined depression which appeared in our immediate neighbourhood was a "V" shaped system that lay over our most western and north-western coasts on Monday morning. It subsequently broke into two, the southern portion moving southwards and the northern part dispersing. There were also some local disturbances, secondaries to larger depressions over southern Europe, that affected our southern and south-eastern districts later in the week. The prevailing wind current was North-Easterly to Easterly; its force was generally moderate or light, but fresh or strong breezes were sometimes experienced on our eastern, south-eastern, and south-western coasts. At the end of the week a large depression was approaching our south-western coasts from the Iberian Peninsula.

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II.—DATA from which the SUMMARY on page 49 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	41	33	39·3	34·0	36·6	− 1·1	0	38	3	0·06	− 0·64	*	*	*	*
	Stornoway	47	29	42·4	31·6	36·8	− 2·3	1	35	0	0·00	− 0·85	22·7	+ 2·8	31	+ 4
	Wick	45	31	42·4	34·3	38·2	− 0·3	1	26	3	0·11	− 0·38	*	*	*	*
	Lairg Ⓢ	46	20	41·4	27·7	34·4	− 1·8	0	53	0	0·00	− 0·70	*	*	*	*
	Glencarron Ⓢ	46	22	41·0	28·0	34·3	− 3·1	0	54	0	0·00	− 1·62	*	*	*	*
	Fort Augustus Ⓢ	46	19	41·5	28·7	34·9	− 3·7	0	50	0	0·00	− 0·83	28·9	+ 14·9	39	+ 20
	Fort William	44	24	41·4	30·8	35·9	− 3·6	0	43	0	0·00	− 1·61	27·1	+ 9·4	37	+ 13
1. SCOTLAND, E.	Nairn	45	21	42·1	25·6	33·6	− 5·0	0	56	1	0·09	− 0·28	*	*	*	*
	Aberdeen	42	29	38·4	32·0	35·1	− 3·9	0	48	5	0·26	− 0·28	16·0	− 7·3	22	− 10
	Braemar Ⓢ	38	18	34·7	24·2	29·3	− 6·0	0	89	3	0·05	− 0·57	*	*	*	*
	Ochtertyre Ⓢ	43	22	38·1	28·1	33·0	− 5·8	0	63	3	0·13	− 0·61	*	*	*	*
	Leith Ⓢ	42	24	40·3	30·1	35·1	− 5·3	0	48	5	0·25	− 0·09	*	*	*	*
	Marchmont Ⓢ	40	19	36·7	27·7	32·1	− 5·8	0	69	6	0·44	− 0·12	17·0	− 3·6	23	− 5
2. ENGLAND, N.E.	Alnwick Castle	40	27	37·2	30·9	34·0	− 5·0	0	56	6	0·44	− 0·10	*	*	*	*
	Durham	38	24	35·3	29·3	32·2	− 6·7	0	69	6	0·43	+ 0·01	11·5	− 10·4	15	− 14
	Shields	40	30	38·0	32·7	35·3	− 4·5	0	47	7	0·42	+ 0·04	*	*	*	*
	Scarborough Ⓜ	40	29	37·4	31·1	34·2	− 5·9	0	55	7	0·41	− 0·03	7·6	—	10	—
	Spurn Head	41	29	38·9	32·3	35·5	− 4·1	0	46	2	0·11	− 0·19	*	*	*	*
	Lincoln	40	28	37·2	30·7	33·9	− 6·1	0	57	6	0·43	+ 0·08	*	*	*	*
	Fulbeck (Lincolnshire)	—	—	—	—	—	—	—	—	6	0·63	+ 0·30	8·9	—	12	—
3. ENGLAND, E.	Hillington Ⓜ	41	25	37·6	30·3	33·8	− 6·1	0	57	5	0·29	− 0·13	8·0	− 14·6	11	− 19
	Yarmouth	40	29	36·9	32·0	34·4	− 4·8	0	53	5	0·45	+ 0·05	*	*	*	*
	Geldeston	41	27	37·5	30·9	34·1	− 6·1	0	55	6	0·42	+ 0·06	6·9	− 17·5	9	− 23
	Cambridge	43	22	37·4	29·5	33·3	− 7·0	0	61	4	0·25	− 0·09	13·4	− 10·3	18	− 14
	Felixstowe	40	27	36·5	31·7	34·0	− 6·1	0	56	6	0·66	—	6·6†	—	9†	—
	Clacton-on-Sea	41	28	37·3	31·3	34·2	− 6·2	0	55	6	0·64	—	4·9	—	6	—
	Rothamsted	40	26	36·4	28·7	32·4	− 7·2	0	67	5	0·33	− 0·10	10·5	− 12·0	14	− 16
	Shoeburyness	41	27	37·1	31·3	34·1	− 6·8	0	55	6	0·67	+ 0·37	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	42	20	35·7	26·7	31·1	− 7·5	0	76	6	0·39	− 0·16	9·8	—	13	—
	Bawtry (Hesley Hall)	39	24	37·6	30·4	33·9	− 6·2	0	57	6	0·20	− 0·16	*	*	*	*
	Nottingham	40	24	37·1	29·7	33·3	− 6·9	0	61	6	0·30	− 0·08	10·7	—	14	—
	Colly Weston (Stamford)	40	25	37·0	29·1	32·9	− 6·9	0	64	6	0·28	− 0·10	*	*	*	*
	Cheadle Ⓜ	38	22	34·6	27·9	31·2	− 7·6	0	76	4	0·14	− 0·40	*	*	*	*
	Birmingham (Edgbaston)	39	24	35·3	29·4	32·3	− 7·6	0	68	4	0·34	− 0·01	3·9	—	5	—
	Shrewsbury	41	22	38·4	29·1	33·6	− 7·0	0	59	4	0·17	—	*	*	*	*
	Hereford Ⓜ	38	21	35·7	28·2	31·8	− 8·9	0	71	5	0·56	+ 0·13	*	*	*	*
	Cirencester	41	22	36·0	27·9	31·8	− 7·6	0	71	5	0·36	− 0·17	8·5	− 14·3	11	− 19
	Oxford	41	25	37·7	29·4	33·4	− 7·2	0	60	3	0·27	− 0·10	10·5	− 11·3	14	− 15
5. ENGLAND, S.	London	41	29	37·4	31·1	34·2	− 7·0	0	55	5	0·52	+ 0·15	3·0‡	− 11·8‡	4‡	− 16‡
	Wisley	41	27	36·5	30·0	33·2	− 8·1	0	62	6	0·49	—	3·9	—	5	—
	Swarraton (Alresford) Ⓜ	42	24	36·9	29·0	32·8	− 6·8	0	64	6	0·51	− 0·04	*	*	*	*
	Tunbridge Wells Ⓜ	40	25	34·8	28·2	31·4	− 8·1	0	74	7	0·67	—	6·8	—	9	—
	Dungeness	41	26	37·7	30·7	34·1	− 6·5	0	55	5	0·52	+ 0·21	6·8	—	9	—
	Hastings (St. Leonards)	41	26	35·9	30·6	33·2	− 7·8	0	62	7	0·74	+ 0·28	7·1	− 19·4	9	− 26
	Southampton	42	26	39·5	30·6	34·9	− 7·4	0	50	5	0·39	− 0·13	10·6	− 13·9	14	− 18
	Portland Bill	41	27	38·4	31·1	34·6	− 8·6	0	52	3	0·42	—	*	*	*	*
	Shaftesbury Ⓜ	37	24	34·9	28·2	31·5	− 8·3	0	74	5	0·84	+ 0·30	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)												*	*	*	*
	Glasgow	40	26	37·9	31·4	34·5	− 4·9	0	53	1	0·01	− 0·65	6·7	− 8·9	9	− 12
	Cally Ⓢ	43	27	38·1	29·2	33·5	− 6·4	0	60	0	0·00	− 0·90	*	*	*	*
	Aspatria	41	25	37·4	28·9	33·0	− 8·8	0	63	1	0·02	—	18·6	—	25	—
	Douglas (Isle of Man)	42	31	39·4	33·3	36·3	− 4·8	0	40	0	0·00	− 0·70	25·8	+ 1·5	34	+ 2
7. ENGLAND, N.W.	Newton Rigg	37	21	34·1	27·1	30·5	− 7·3	0	81	0	0·00	—	12·9	—	17	—
	Stonyhurst	38	22	35·8	29·2	32·4	− 7·2	0	67	2	0·06	− 0·74	9·9	− 9·9	13	− 13
	Blackpool Ⓜ	43	20	38·0	28·0	32·9	− 7·5	0	64	0	0·00	− 0·53	13·1	− 6·9	18	− 9
	Manchester (Prestwich)	40	22	36·0	28·9	32·4	− 7·2	0	67	2	0·06	− 0·48	9·0	—	12	—
	Liverpool Obsy. (Bidston)	42	23	37·3	29·9	33·5	− 7·3	0	60	1	0·01	− 0·39	15·3	—	20	—
	Chester (Hawarden Bridge)	43	24	37·7	31·5	34·5	− 7·0	0	53	0	0·00	—	*	*	*	*
	Llandudno Ⓜ	44	26	39·6	32·2	35·8	− 6·7	0	43	0	0·00	− 0·48	25·9	+ 4·3	35	+ 6
	Holyhead	42	28	39·4	32·4	35·8	− 6·4	0	43	0	0·00	− 0·54	*	*	*	*
	Bettws-y-Coed	42	22	38·1	29·9	33·9	− 5·9	0	57	2	0·03	—	19·4	—	26	—
8. ENGLAND, S.W.	Pembroke	41	30	38·9	33·1	35·9	− 6·6	0	43	3	0·38	− 0·21	13·1	− 12·3	17	− 16
	Clifton	40	24	37·2	29·9	33·4	− 8·3	0	60	3	0·52	− 0·03	*	*	*	*
	Bath	40	24	37·3	29·4	33·2	− 8·3	0	62	4	0·85	+ 0·33	10·7	—	14	—
	Arlington (N. Devon)	39	24	36·1	29·1	32·5	− 8·2	0	67	3	0·33	− 0·55	*	*	*	*
	Cullompton Ⓜ	42	23	37·8	30·0	33·8	− 8·4	0	57	4	0·75	+ 0·14	9·7	− 13·8	13	− 18
	Falmouth	43	32	40·3	34·6	37·4	− 6·8	0	32	4	0·48	− 0·36	6·1	− 20·5	8	− 27
	Plymouth	42	29	39·1	32·2	35·6	− 7·7	0	45	4	0·25	− 0·38	13·6	− 11·9	18	− 16
9. IRELAND, N.	Malin Head	45	29	39·9	32·7	36·2	− 5·6	0	41	0	0·00	− 0·49	*	*	*	*
	Edenfel (Omagh)	42	27	39·4	30·4	34·8	− 4·7	0	50	0	0·00	− 0·57	*	*	*	*
	Blacksod Point	48	30	42·4	36·6	39·4	− 3·3	1	18	3	0·49	− 0·34	*	*	*	*
	Markree Castle	45	19	40·7	30·4	35·4	− 5·9	0	46	3	0·63	− 0·04	15·0	− 5·1	20	− 7
	Armagh	43	27	40·0	33·1	36·5	− 4·1	0	39	1	0·05	− 0·43	12·5	− 7·3	17	− 10
	Donaghadee	43	33	40·1	34·3	37·1	− 4·5	0	34	2	0·02	− 0·48	*	*	*	*
10. IRELAND, S.	Dublin	45	33	41·2	35·3	38·2	− 4·5	0	27	3	0·24	− 0·23	9·2	− 14·0	12	− 19
	Birr Castle	45	23	39·7	28·6	34·0	− 7·3	0	56	3	0·43	− 0·06	10·8	− 10·5	14	− 14
	Kilkenny	44	29	39·1	32·6	35·8	− 6·4	0	43	4	0·47	− 0·06	*	*	*	*
	Waterford	45	27	41·4	33·4	37·3	− 5·1	0	33	4	1·25	+ 0·53	*	*	*	*
	Roche's Point	46	31	41·9	35·7	38·7	− 5·5	0	23	6	1·60	+ 0·73	*	*	*	*
	Valencia	52	30	44·7	35·6	40·0	− 5·2	8	23	4	1·03	− 0·01	23·7	− 1·0	31	1
	Killarney	50	26	45·1	33·4	39·1	− 4·6	9	31	4	0·72	− 0·26	*	*	*	*
	Foynes	48	27	41·6	33·4	37·4	− 5·8	0	32	3	0·84	+ 0·18	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	46	33	43·1	36·0	39·5	− 6·3	3	21	7	1·09	+ 0·53	8·5	− 19·2	11	− 25
	Jersey	45	31	40·7	32·9	36·7	− 7·1	0	37	5	0·40	− 0·16	17·4	− 12·2	23	− 16

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

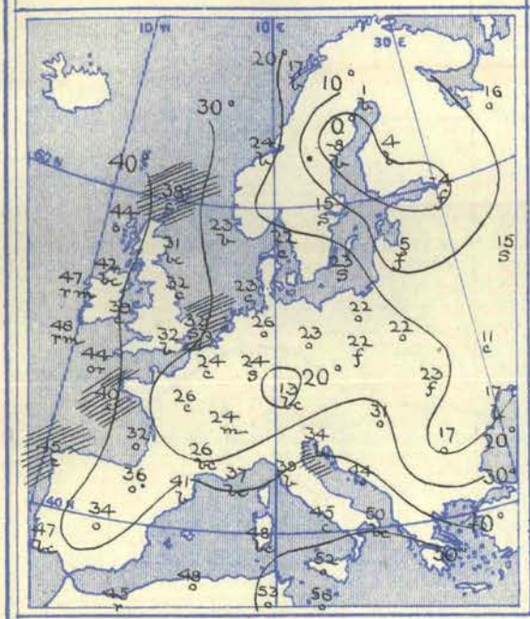
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

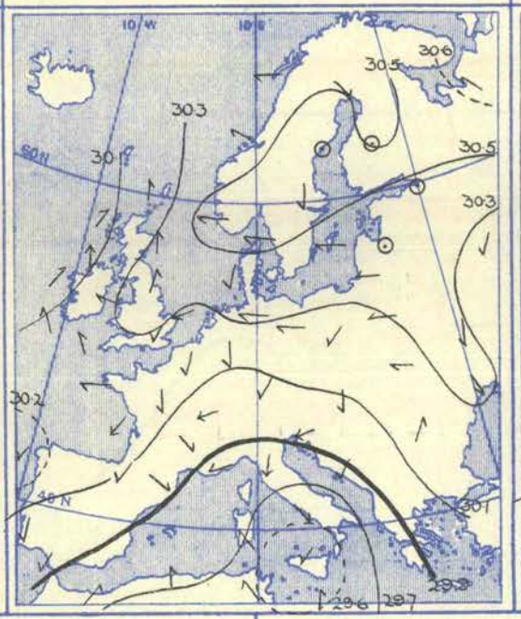
Note.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 28th February, 1904.

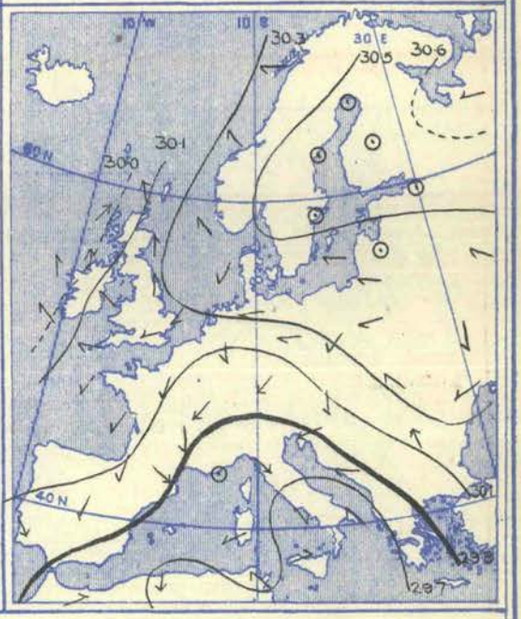
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy at Nemours, several stations in Italy and Ireland, and at Scilly, snow showers falling on the east and south coasts of England and at Le Havre, and snow also prevailing in the south of Sweden, a few parts of central Europe, and at St. Petersburg; cloudy or dull in most other regions, but fine and bright over the major portion of Scandinavia. Heavy rain experienced later over Algeria and southern Europe—1·7 ins. at Algiers, 1·0 in. at Barcelona, and 0·9 in. at Brindisi—and as much as 0·7 in. at Roche's Point, and 0·6 in. at Scilly.

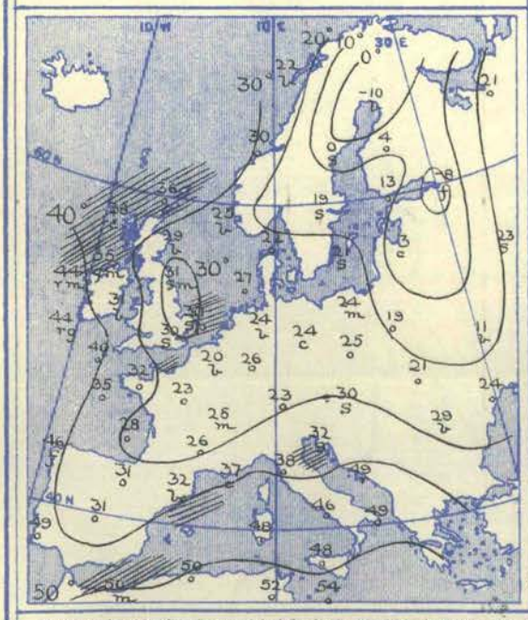
Temperature changed irregularly. Readings at 8 a.m. highest, 56° at Malta, 54° at Athens, 50° at Brindisi and Palma, and 48° at Valencia (Ireland). Lowest, (1) −8° at Hernösand, −4° at St. Petersburg, +9° at Memel, 11° at Kiev, (2) 15° at Munich, 24° at Belfort, 27° at Limoges, (3) 31° at Nairn and over central England, (4) 34° at Madrid. Rising later to 66° at Sfax, 60° at Pesaro, and to 57° at Barcelona, but scarcely exceeding 32° over the south-east of England, and remaining below it over all the central and northern parts of the Continent.

Wind showing a general and extensive but rather irregular anticyclonic circulation over the major portion of our area, but a cyclonic movement prevailing around Sicily. Cyclonic winds in the South extending further northwards by evening, and the Easterly current increasing somewhat in force. Southerly wind increasing in strength on our own western and northern coasts.

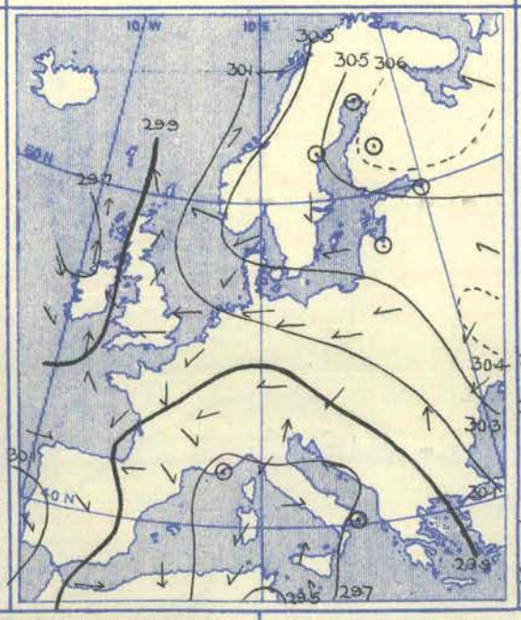
Barometer at 8 a.m. ranging from above 30·5 ins. in a large anticyclone over northern Europe to less than 30·1 ins. off our north-west coasts, and to below 29·6 ins. in a depression centred over Sicily. Latter system extending northwards later, and becoming less regular in form. A decrease of pressure taking place over our Islands—most in the west. Gradients increasing both over our western and northern districts and in most Continental regions.

Monday, 29th February, 1904.

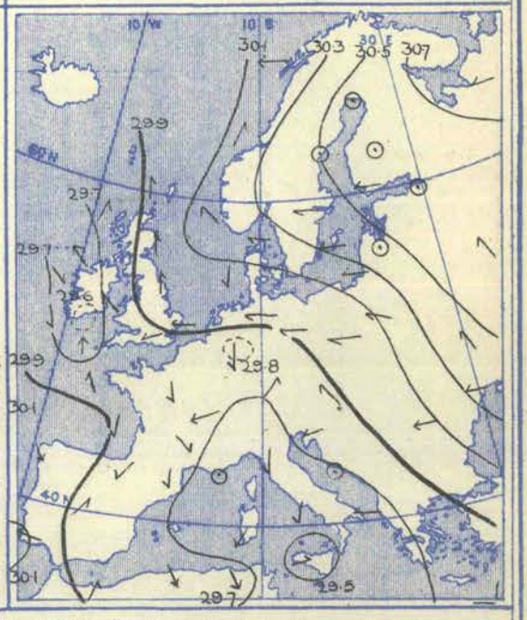
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in Scotland and Wales, but cloudy or overcast in nearly all other parts of our area. Rain or sleet falling in the west and south of Ireland, and snow showers in the east and south-east of England. Snow reported in the south-east of Sweden, at Copenhagen, and at a few other Continental stations, and rain at some of those on the shores of the Adriatic and Mediterranean. Snow also falling at Aumale. Rain or snow experienced in many regions later, but amounts not generally heavy.

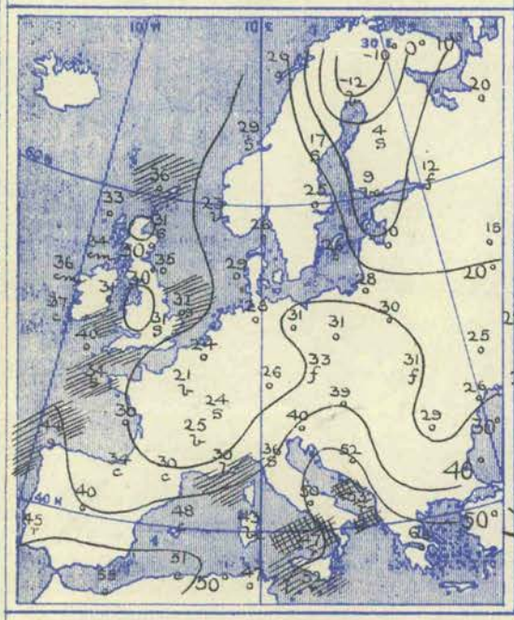
Temperature risen in most parts of the Continent, but fallen over France and the United Kingdom. Readings at 8 a.m. highest, 54° at Malta and Sfax, 50° at Sanguinaires, and 49° at Lisbon. Lowest, (1) −10° at Haparanda, −8° at St. Petersburg, +3° at Riga, 11° at Kharkov, (2) 25° at Liverpool and a few degrees higher over central England, (3) 23° at Paris and Munich, 26° at Lyons, and 30° at Perpignan, (4) 31° at Madrid, and 30° at Aumale. Not exceeding the freezing point all day on the south-east coast of England, and severe frost continuing over the north and east of Europe. Rising to 72° at Patras, 68° at Brindisi, and to 64° at Nemours.

Wind moderate or fresh from the Northward in the west of Ireland, and moderate to strong from the Southward on all the west and north coasts of Great Britain; moderate to fresh from the Eastward over the east and south of England. Light and anticyclonic over the major portion of our area, but a cyclonic circulation prevailing over the Mediterranean and Italy. Wind becoming cyclonic further north during day.

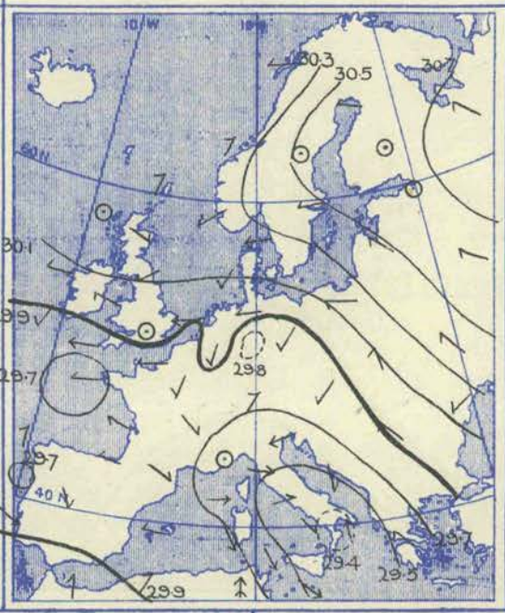
Barometer at 8 a.m. ranging from above 30·6 ins. in an anticyclone centred over Finland to between 29·8 ins. and 29·7 ins. and less in a "V" shaped disturbance off our north-west coasts, and to below 29·5 ins. in a shallow depression over Tunis. High pressure area increasing in intensity later. Depression in the north-west moving southwards, and that in the south travelling northwards. A new disturbance appearing over the west of Germany. Gradients increasing somewhat over northern and central Europe.

Tuesday, 1st March, 1904.

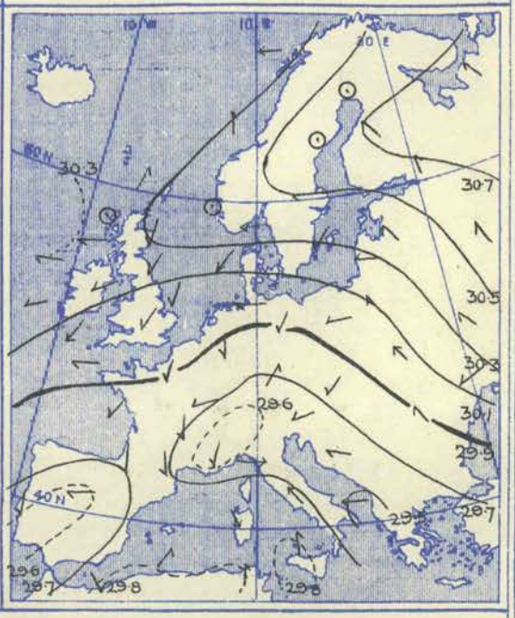
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. very cloudy or dull generally, but bright at a few French stations. Snow falling at Roche's Point and in several parts of England and Brittany, as well as in a few parts of northern Europe and at Belfort, Florence, and Turin. Rainy in Portugal and at San Fernando and in Italy and its neighbourhood. Subsequent amount of precipitation not large, but rather general over our Islands and the central and southern countries.

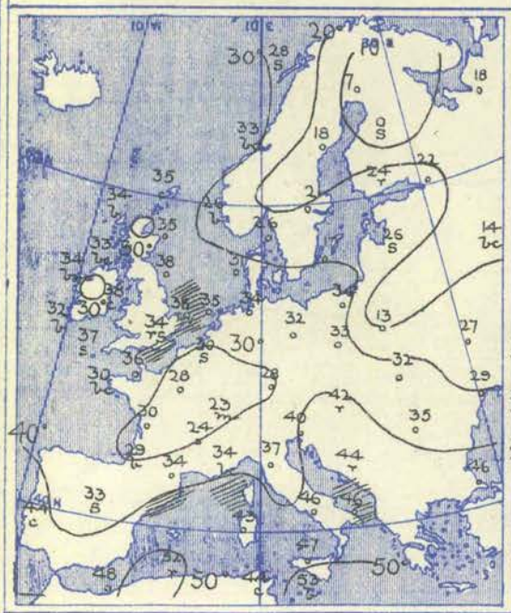
Temperature changed irregularly, but risen in most places. Readings in morning highest, 60° at Athens, 55° at Nemours, 52° at Malta and San Fernando. Lowest, (1) −12° at Haparanda, +1° at Helsingfors, 10° at Riga, (2) 18° at Limoges, 21° at Paris, 25° at Lyons, 30° at Nice, (3) 36° at Florence, 37° at Pesaro, (4) 26° at Nairn, 29° or 30° over central England, 32° at Parsonstown. Maxima during day exceeding 60° in Algeria and at Brindisi, but low over our area generally; only 35° at Paris and in central England, and 29° at Munich. Severe frost continuing in the north and east.

Wind in morning anticyclonic in all the most northern countries, and chiefly cyclonic in the more southern regions. Strong from East at the Scaw and on our south-western coasts, and strong to a slight gale from various directions on the shores of the Mediterranean. No general change in direction later, but force decreasing on the Mediterranean.

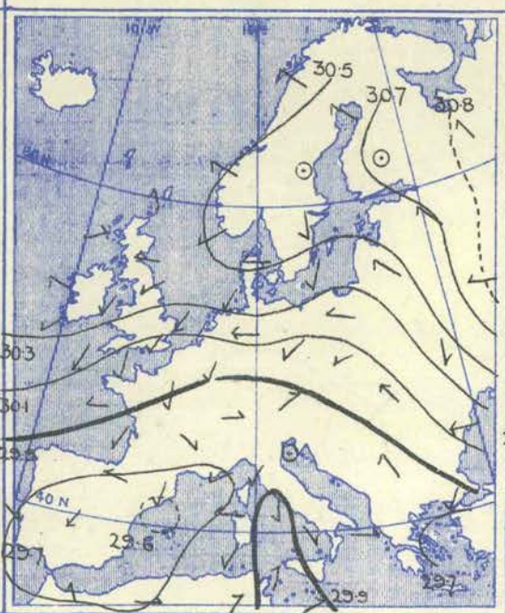
Barometer at 8 a.m. ranging from above 30·7 ins. over the north of Russia to 29·8 ins. and less in a small minimum near Münster, to below 29·7 ins. in a depression over the Bay of Biscay and in a smaller system near Oporto, and to below 29·4 ins. in a rather important disturbance over the south of Italy. Barometer rising in most regions during day, and all depressions, except that over Portugal, becoming much modified or dispersing. Portuguese disturbance apparently moving south-eastwards and growing deeper.

Wednesday, 2nd March, 1904.

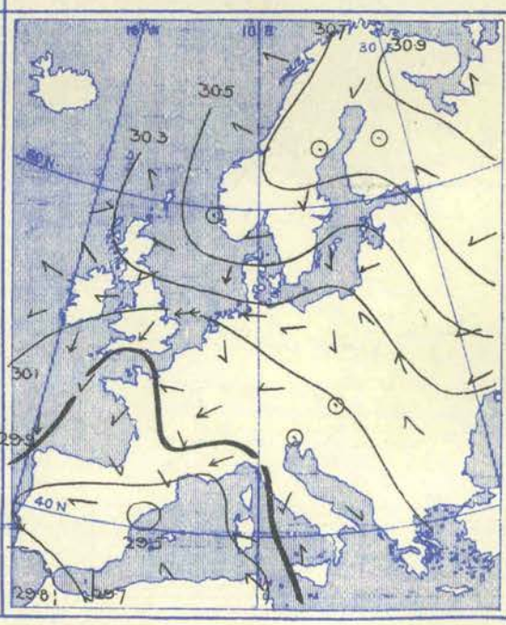
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. dull or very cloudy as a whole, but fine and bright in Ireland, the Hebrides, and the west of Norway. Rain or sleet falling in many parts of England, snow in the north of France and Belgium, and also at Kuopio, Riga, Bodö, Turin, and Madrid, and rain at Lésina, Buda-Pesth, and Algiers. Rain later in most western and southern countries, and heavy snow (0·9 in.) at Memel. Rain heaviest in the south of France—0·79 in. at Nice.

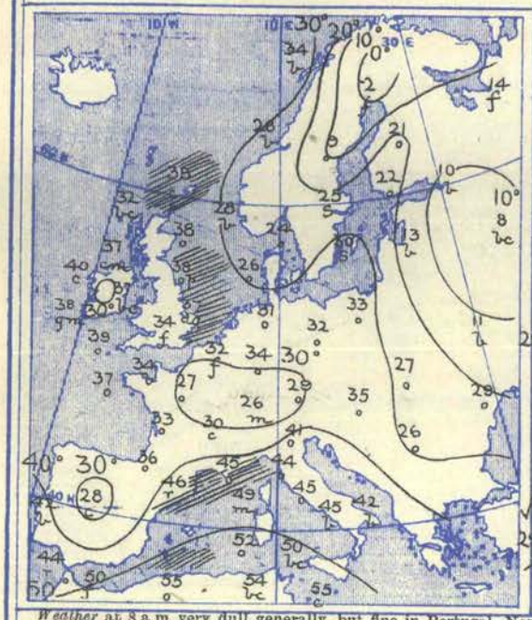
Temperature risen in Great Britain, France, and central and northern Europe, fallen in Ireland and the southern regions. Readings in morning ranging from 53° at Malta and 52° at Algiers, to 33° at Madrid, 25° at Parsonstown, 23° at Nairn and Belfort, 13° at Warsaw, 7° at Haparanda, 1° at Moscow, and to zero at Kuopio. Rising during day to 70° at La Calle, 61° at Malta, and 60° at Palermo, but remaining below 40° over France, central Europe, and most parts of England, and below 32° in Russia, Finland, and Sweden. Maxima only 39° at Madrid and 38° at Perpignan.

Wind at 8 a.m. Easterly or North-Easterly over the major portion of our area, and blowing freshly or strongly over Denmark, the North Sea, and England. More variable and mainly cyclonic over the southern countries and the Mediterranean. Increasing considerably in force from the Eastward later over the Gulfs of Genoa and Lion, and to a slight gale on the east coast of England. Not much change elsewhere.

Barometer at 8 a.m. ranging from above 30·8 ins. in a very large but irregularly shaped anticyclone having its centre over Russia, to 29·7 ins. and less in a depression over Asia Minor, and in a smaller minimum over Tunis, and to below 29·6 ins. in a disturbance centred off the east of Spain. Several local irregularities of pressure shown over the central countries. Spanish depression increasing in depth later, and a small minimum appearing over Brittany. Anticyclone continuing to increase in intensity, and gradients becoming steeper in most parts of our area.

Thursday, 3rd March, 1904.

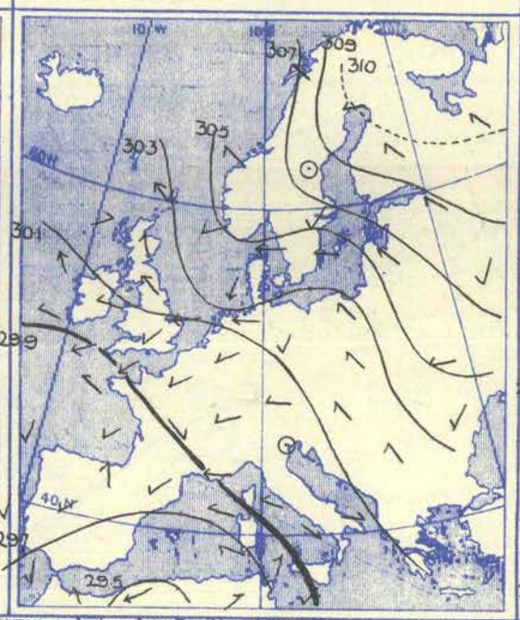
Temperature and Weather. 8 a.m.

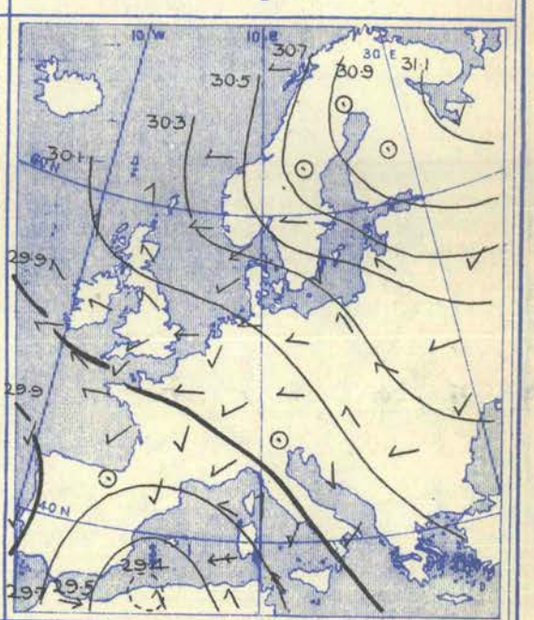


Weather at 8 a.m. very dull generally, but fine in Portugal, Norway, and at various Russian stations, and also in the south of Italy. Rain falling at San Fernando, Oran, Barcelona, Leghorn, and Yarmouth, and snow at Limoges and in the south of Sweden. Very heavy rain experienced later in Algeria, Sardinia, and Sicily, and the south-eastern parts of France—1·3 ins. at Oran, 2·4 ins. at Palermo, 1·5 ins. at Cagliari, and 1·0 in. at Cette. Slight amounts of rain or sleet over England.

Temperature risen in most places, but fallen in the north of Sweden and over Russia and Denmark. Morning readings highest, 55° at Malta and Algiers, and 52° at Cagliari. Lowest, (1) −2° at Haparanda, +5° at Kharkov, 8° at Moscow, 10° at St. Petersburg, and 11° at Kiev, (2) 26° at Belfort, 27° at Paris, and 30° at Lyons, (3) 23° at Madrid, (4) 30° at Nairn, and 31° at Oxford. Rising subsequently to 68° at La Calle, and to above 50° at most Italian stations and at Nice, but remaining much below 32° in the north and east of Europe, and not greatly exceeding that value over the central countries. Thermometer touching or exceeding 40° at most of our own stations.

Barometer and Wind. 8 a.m. 6 p.m.



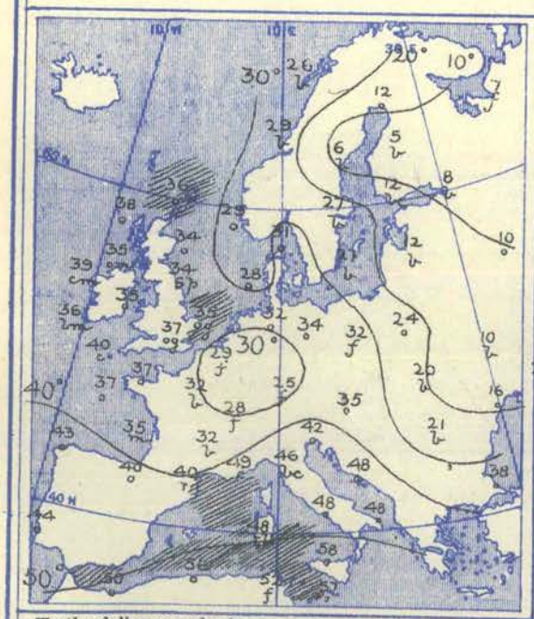


Wind Easterly or North-Easterly very generally; moderate or light as a whole, but fresh or strong on all the shores of the North Sea and at some of our western and south-western stations, and blowing a moderate gale at Cape Sicié. A partial cyclonic circulation shown in the extreme south of our area; a moderate gale from South prevailing at Aumale. Not much change occurring later, but a moderate gale from West setting in at Oran, and from East at Cagliari.

Barometer unusually high in a large anticyclone over northern Europe. Morning readings ranging from 31·06 ins. at Archangel and 31·03 ins. at Haparanda, to less than 29·5 ins. in a depression over Algeria. Pressure increasing to 31·17 ins. at Archangel by 6 p.m., but falling in most other parts of Europe and in Algeria. Gradients increasing considerably over the northern countries, and also over the western half of the Mediterranean, Italy, and the Iberian Peninsula. Algerian disturbance moving slowly northwards.

Friday, 4th March, 1904.

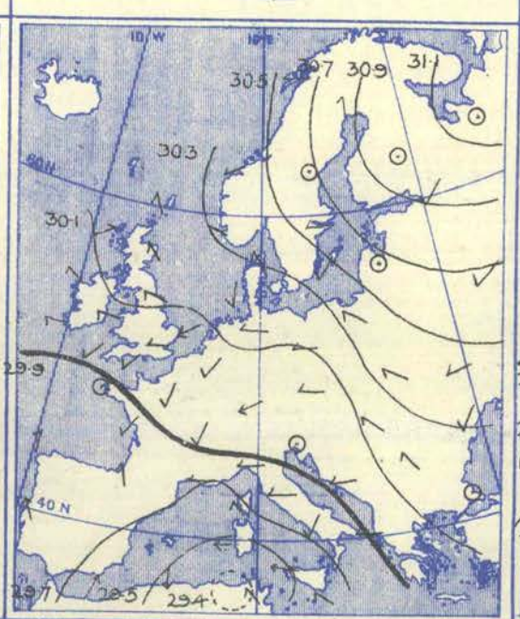
Temperature and Weather. 8 a.m.

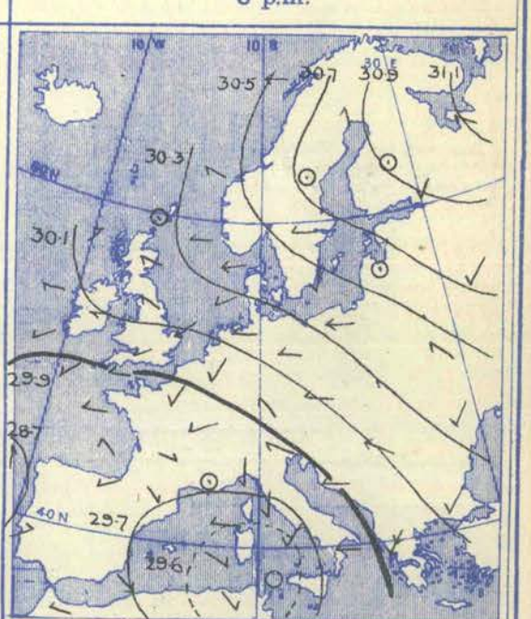


Weather dull or very cloudy as a whole, but fine and bright on the shores of the Baltic, in Finland, and at most Scandinavian stations. Rain falling at Perpignan, Barcelona, and Aumale, and snow at Limoges, and showers of snow at Shields. Fog prevalent in some parts of central Europe. Rain falling later in many parts of southern Europe and northern Africa, and rain or sleet in the south and centre of England. Largest amounts, more than 0·5 in. at Bath, Lisbon, Corunna, Cherbourg, and 0·7 in. at Aumale.

Temperature fallen generally, but risen in Denmark, France, and Italy. Morning values highest, 58° at Palermo, 57° at Malta, 56° at Algiers, and 51° at Sanguinaires. Lowest, (1) 5° at Kuopio, 6° at Kharkov and Hernösand, 7° at Archangel, 8° at St. Petersburg, and 10° at Moscow, (2) 25° at Munich, 28° at Belfort, and 32° at Paris and Lyons, (3) 33° to 35° over the inland parts of the United Kingdom, (4) 39° at Aumale. Maxima during day below 40° over central Europe and in most parts of our Islands, and below 32° in the far north and north-east, but thermometer rising to 60° or rather higher in the extreme south.

Barometer and Wind. 8 a.m. 6 p.m.



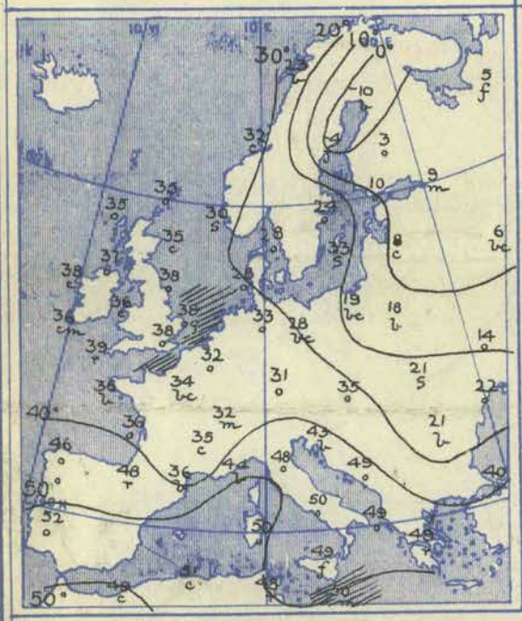


Wind in morning light to moderate or fresh from between North-East and East over all the central and more northern parts of our area, but drawing into South-East in the north of Ireland, and into South in Scotland. A cyclonic circulation of greater strength prevailing over the western half of the Mediterranean, and the Easterly current blowing a fresh or moderate gale at Palermo and Cagliari. No general change later, but gale in Mediterranean subsiding.

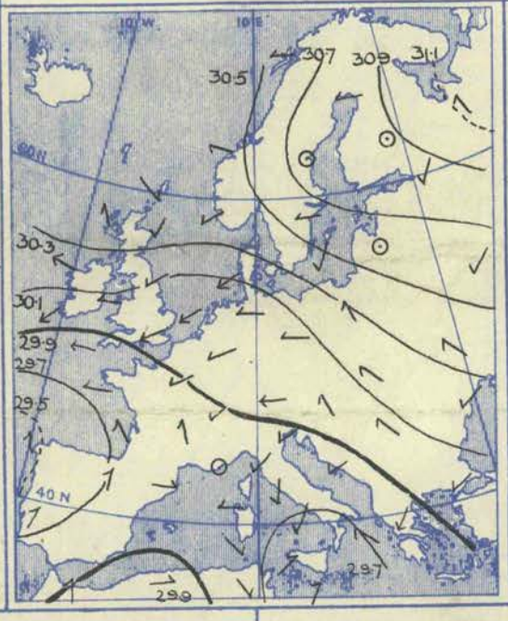
Barometer continuing unusually high—31·16 ins.—at Archangel, and above 30·4 ins. over the whole of the north-eastern half of our area. Still lowest—less than 29·4 ins.—in a depression over Algeria. Gradients moderately steep generally, and rather irregular. Algerian disturbance moving eastwards later and decreasing in depth, but another depression approaching the Spanish Peninsula from the westward. Gradients becoming slighter in most regions.

Saturday, 5th March, 1904.

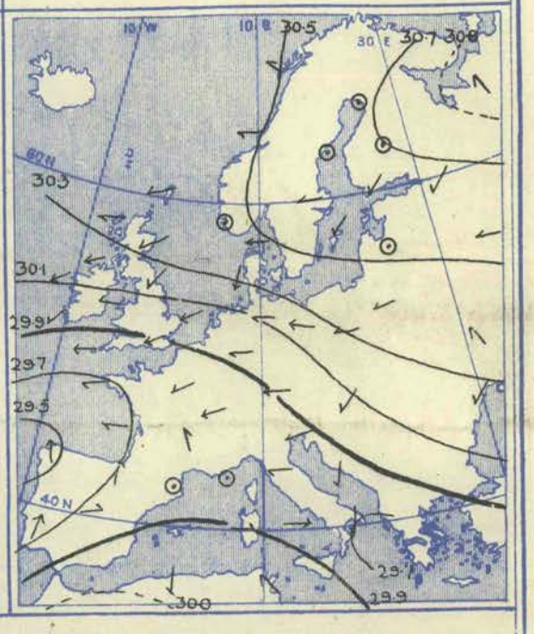
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in most parts of Germany and the north of Scandinavia, as well as in a few isolated stations elsewhere, but very dull as a whole. Rainy in Greece, at Biarritz, Tunis, and in some English and Welsh localities, and snow falling at Lemberg and in the south of Scandinavia. Not much precipitation later, except over the Spanish Peninsula and our Islands—largest amounts, 0·3 in. at Roche's Point and Pembroke, and 0·4 in. at Corunna, and 0·6 in. at San Fernando.

Temperature changed rather irregularly. Readings at 8 a.m. highest, 54° at Sanguinaires, 53° at La Calle, 52° at Barcelona and Lisbon. Lowest, (1) −10° at Haparanda, +3° at Kuopio, 5° at Archangel, 6° at Moscow, 14° at Kiev, (2) 32° at Nairn, 35° at Parsonstown and Nottingham, (3) 36° at Perpignan. Rising subsequently to about 40° in most parts of our Islands, to above 50° in the southern countries, and to above 60° in places. Highest value, 66° at Algiers. Severe frost continuing in the north and north-east.

Wind at 8 a.m. moderate or fresh from the Southward along the west coast of the Iberian Peninsula, and a complete cyclonic circulation prevailing over Italy and the central part of the Mediterranean. Easterly in all other parts of our area; light or moderate generally, but fresh or strong in several places. Cyclonic circulation becoming less pronounced over the Mediterranean and Italy later, but a good deal more marked over the south-west of our area.

Barometer at 8 a.m. ranging from 31·02 ins. at Archangel to 29·7 ins. and less in a depression centred over Sicily, and to 29·6 ins. in another off the north-west of Spain. Gradients rather steep in places, but moderate or slight generally. Barometer falling in nearly all regions during day, and Spanish depression apparently moving eastwards. Disturbance over Sicily travelling east-north-eastwards.

IV.—GENERAL NOTES, etc.

The distribution of pressure during this week was much more simple than usual, the chief features being a large anticyclone having its centre over northern Europe, and a series of depressions which appeared over Italy, the Iberian Peninsula, and the Mediterranean. The barometer rose from day to day within the high pressure area until the latter half of the week when it was for a time above 31·15 ins. No depressions of much importance passed over our Islands, but secondaries on the northern side of the disturbances in the south had a great effect on the weather over the southern and south-eastern counties of England. The week was remarkable for the great amount of cloud experienced both in the United Kingdom and in most Continental regions. Rain, sleet, or snow fell almost daily on the shores of the North Sea and the English Channel, and heavy rain was sometimes recorded in various parts of southern Europe and in Algeria. Falls of snow were frequent over northern and central Europe, but the amounts mostly small. Temperature was extremely low over the most northern and eastern parts of our area, and frost in those regions continued without a break. Over our Islands, France, and the central countries it was also low for the time of year, especially during the day-time. In the far south of Europe and in Algeria temperature was rather changeable, but was not, as a rule, high.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale; ⟶⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from Observations made at 8 a.m. in the British Islands, Belgium, Holland and Spain; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; and at 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands, Belgium and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway, and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 50.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	16·0	− 3·5	22	− 5
STRATHPEFFER SPA	32·3	+ 14·4	44	+ 19
EDINBURGH	7·7	− 10·5	10	− 14
COCKLE PARK	7·5	—	10	—
NEWCASTLE-ON-TYNE	2·3	—	3	—
YORK	8·5	− 11·1	11	− 15
SKEGNESS	6·6	—	9	—
CROMER	8·0	—	11	—
LOWESTOFT	8·5	—	11	—
DUNMOW	8·7	—	11	—
SHEFFIELD	7·5	—	10	—
WORKSOP	6·1	− 13·3	8	− 18
THURCASTON	6·9	− 12·3	9	− 17
MARGATE	4·2	− 19·2	6	− 25
BROADSTAIRS	—	—	—	—
RAMSGATE	3·8	—	5	—
EASTBOURNE	9·1	− 16·4	12	− 22
BRIGHTON	11·2	− 13·3	15	− 19
WORTHING	15·3	—	20	—
BOGNOR	14·9†	—	20†	—
WESTBOURNE	8·0†	− 18·5	11†	− 24
VENTNOR HOSPITAL	9·0	− 18·4	12	− 24
BOURNEMOUTH	13·8	—	18	—
MARLBOROUGH	6·3	− 14·3	8	− 18
SOUTHPORT	16·1	—	22	—
RHYL	22·2	—	30	—
ABERDOVEY	29·0†	—	38†	—
TENBY	11·6	− 15·2	15	− 20
TORQUAY	6·3	− 19·5	8	− 26
NEWQUAY	12·1	− 14·2	16	− 19
GUERNSEY	21·3†	− 7·3	28†	− 10

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 10. TENTH WEEK, ENDING SATURDAY MARCH 12TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 56.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	48	21	42·2	31·8	36·9	2 below	1	− 9	35	+ 1	36	− 37	326	− 32
	1. SCOTLAND, EAST	53	24	42·4	29·9	35·9	3 below	1	−13	41	+ 5	23	− 71	417	+ 14
	2. ENGLAND, N.E.	53	26	43·1	33·2	38·0	2 below	3	−13	31	0	36	− 67	335	− 10
	3. ENGLAND, EAST	58	23	46·8	34·5	40·5	0 (average)	13	−17	29	− 4	51	− 67	318	− 63
	4. MIDLAND COUNTIES	60	23	46·6	32·1	39·1	1 below	13	− 8	36	+ 3	55	− 80	364	− 20
	5. ENGLAND, SOUTH	60	25	47·7	35·0	41·2	0 (average)	16	− 6	27	+ 1	81	− 72	282	− 12
Principal Grazing Districts.	6. SCOTLAND, WEST	51	24	43·6	31·2	37·2	3 below	4	− 9	38	+12	56	− 51	280*	− 8
	7. ENGLAND, N.W.	55	24	44·3	32·2	38·1	3 below	6	− 9	35	+10	47	− 67	305	+ 22
	8. ENGLAND, S.W.	59	25	48·2	35·2	41·5	1 below	17	− 5	27	+ 6	145	− 34	213	− 9
	9. IRELAND, NORTH	51	23	44·2	32·0	37·9	4 below	6	−13	35	+12	72	− 81	269	+ 16
	10. IRELAND, SOUTH	53	24	46·0	34·4	40·0	3 below	11	−14	28	+11	151	− 68	197	+ 11
	— CHANNEL ISLANDS	56	36	49·7	39·9	44·7	0 (average)	28	+ 1	6	− 2	210	− 39	63	− 32

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 56.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	5	4 less	48	+ 1	9·9	− 1·2	18	− 2	22	− 3	98	− 20	16	− 3
	1. SCOTLAND, EAST	4	4	1 less	44	+ 6	5·9	+ 0·1	25	+ 3	32	+ 3	101	− 49	16	− 8
	2. ENGLAND, N.E.	3	4	0 (average)	43	+ 7	4·8	+ 0·7	21	− 6	27	− 8	104	− 52	16	− 8
	3. ENGLAND, EAST	3	2	2 less	44	+ 6	5·1	+ 1·1	28	+ 3	36	+ 4	131	− 38	20	− 6
	4. MIDLAND COUNTIES	3	4	0 (average)	49	+14	6·8	+ 2·0	22	+ 4	28	+ 5	99	− 43	15	− 7
	5. ENGLAND, SOUTH	2	2	2 less	51	+15	8·2	+ 2·9	30	+ 5	38	+ 6	134	− 28	20	− 4
Principal Grazing Districts.	6. SCOTLAND, WEST	3	5	4 less	43*	+ 1	10·0	− 0·7	26	+ 4	34	+ 5	97	− 43	15	− 7
	7. ENGLAND, N.W.	2	4	2 less	43	+ 4	7·5	+ 1·3	23	− 1	30	− 2	105	− 40	16	− 6
	8. ENGLAND, S.W.	3	6	0 (average)	51	+10	11·0	+ 3·3	32	+ 4	40	+ 5	132	− 49	20	− 7
	9. IRELAND, NORTH	3	1	4 less	50	+ 4	8·0	+ 1·3	32	+11	42	+14	106	− 43	17	− 7
	10. IRELAND, SOUTH	3	3	3 less	52	+ 8	10·3	+ 1·8	29	+ 3	36	+ 4	127	− 45	20	− 7
	— CHANNEL ISLANDS	2	3	3 less	56	+12	11·7	+ 5·0	37	+ 6	47	+ 7	169	− 39	25	− 6

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this period underwent many changes, especially in the south. It was on the whole fairer than of late, and at about the middle of the week brilliantly fine in nearly all districts. Thunder was experienced on Wednesday at Clifton, Portland Bill, and in London.

Temperature was below the mean generally, but owing to some high readings on Tuesday and Wednesday it just equalled the normal in England S. and E. and the Channel Islands. The highest of the maxima, registered, as a rule, on the 8th or 9th, ranged from 60° in England S. and the Midland Counties (London, Southampton, and Oxford) to 51° in Scotland W. and Ireland N., and to 48° in Scotland N. The lowest of the minima occurred towards the end of the week, except at some Scotch stations. In Scotland N. the thermometer fell to 21°, and in England E., the Midland Counties, and Ireland N. to 23°; elsewhere the readings ranged from between 24° and 26° except in the Channel Islands, where the thermometer fell no lower than 36°.

Rainfall was less than the mean generally, but equal to it in England N.E., the Midland Counties, and England S.W.

Bright Sunshine was more abundant than for many weeks past, and exceeded the mean in almost all districts. The percentage of the possible duration ranged from 47 in the Channel Islands, 42 in Ireland N., and 40 in England S.W., to 27 in England N.E. and 22 in Scotland N. At Bournemouth and Jersey the percentage was 54, and at Aberdovey 56.

Barometer and Wind. During the early days of the week the barometer was highest in an anticyclone stretching from the extreme north of Europe towards our Islands, while a depression advanced slowly northwards towards our south-west coasts. On reaching the neighbourhood of the Scilly Islands the system, after remaining stationary for a time, entirely changed its course, the centre ultimately moving away in a south-easterly direction across the west and south of France. The wind during this time was mainly Easterly and fresh or strong in force, but on Tuesday our more southern districts were under the influence of a light Southerly wind. The next change in the pressure distribution was the appearance of an anticyclone over our western districts from the north-westward; on Friday morning its centre lay over the Irish Sea, but from this time it decreased slowly in intensity and moved eastwards. At the end of the week the barometer was falling briskly at our western and north-western stations, and the wind had backed to the Southward and increased greatly in force.

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II.—DATA from which the SUMMARY on page 55 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	46	29	40·3	33·2	37·0	− 0·7	0	35	6	0·29	− 0·38	*	*	*	*
	Stornoway	47	30	43·4	33·7	38·4	− 0·9	4	29	5	0·50	− 0·32	17·2	− 4·5	22	− 6
	Wick	48	29	42·9	33·6	38·1	− 0·7	3	29	4	0·63	+ 0·16	*	*	*	*
	Lairg Ⓢ	48	21	42·4	29·0	35·5	− 1·1	1	44	?4	0·46	− 0·24	*	*	*	*
	Glencarron Ⓢ	46	25	40·8	30·5	35·5	− 2·2	0	46	3	0·49	− 1·08	*	*	*	*
	Fort Augustus Ⓢ	47	22	42·7	30·3	36·3	− 2·8	2	40	4	0·44	− 0·31	20·6	+ 5·0	26	+ 6
	Fort William	46	25	42·8	31·9	37·2	− 2·6	2	35	4	0·74	− 0·73	23·3	+ 3·7	30	+ 5
1. SCOTLAND, E.	Nairn	50	24	42·9	29·6	36·1	− 3·0	3	43	3	0·16	− 0·21	*	*	*	*
	Aberdeen	49	30	42·3	32·3	37·2	− 2·3	1	33	3	0·62	+ 0·09	27·2	+ 1·9	35	+ 3
	Braemar Ⓢ	42	20	38·5	25·8	32·0	− 3·8	0	70	3	0·25	− 0·31	*	*	*	*
	Ochtertyre Ⓢ	53	27	44·6	29·9	37·0	− 2·2	7	42	4	0·61	− 0·05	*	*	*	*
	Leith	52	29	45·1	31·7	38·2	− 2·5	9	37	4	0·24	− 0·08	*	*	*	*
	Marchmont Ⓢ	48	28	40·7	29·9	35·1	− 3·4	0	48	4	0·62	+ 0·07	22·6	+ 0·4	29	+ 1
2. ENGLAND, N.E.	Alnwick Castle	48	29	42·3	31·9	37·0	− 2·4	1	35	3	0·79	+ 0·25	*	*	*	*
	Durham	47	26	41·5	31·6	36·4	− 3·0	0	39	3	0·44	0·00	19·1	− 4·7	25	− 6
	Shields	48	30	42·1	33·1	37·5	− 2·6	0	31	3	0·35	− 0·03	*	*	*	*
	Scarborough Ⓡ	48	32	43·6	34·8	39·1	− 1·4	4	26	4	0·33	− 0·10	18·2	—	23	—
	Spurn Head	45	32	42·9	35·3	39·0	− 1·1	3	23	4	0·28	0·00	*	*	*	*
	Lincoln	53	28	45·9	32·5	39·0	− 1·7	11	35	3	0·37	+ 0·05	*	*	*	*
	Fulbeck (Lincolnshire)	—	—	—	—	—	—	—	—	2	0·10	− 0·21	23·1	—	29	—
3. ENGLAND, E.	Hillington Ⓡ	56	25	47·5	33·6	40·3	− 0·3	15	32	3	0·20	− 0·19	30·8	+ 6·2	39	+ 8
	Yarmouth	48	29	42·4	35·9	39·1	− 0·6	1	21	3	0·27	− 0·13	*	*	*	*
	Geldeston	57	23	46·8	33·6	40·0	− 0·7	13	31	4	0·27	− 0·08	21·6	− 5·6	27	− 7
	Cambridge	58	28	48·3	33·6	40·7	− 0·3	18	32	2	0·10	− 0·21	30·8	+ 4·6	39	+ 6
	Felixstowe	52	29	44·9	35·2	39·9	− 0·7	8	25	3	0·19	—	24·7†	—	31†	—
	Clacton-on-Sea	55	32	47·3	36·3	41·6	+ 0·6	15	22	2	0·11	—	24·9	—	32	—
	Rothamsted	57	25	49·2	32·6	40·7	+ 0·5	20	37	2	0·21	− 0·18	31·5	+ 6·5	40	+ 8
	Shoeburyness	56	29	48·1	34·9	41·3	− 0·1	17	28	1	0·08	− 0·21	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	48	29	41·0	31·2	36·0	− 3·1	0	42	3	0·65	+ 0·15	20·5	—	26	—
	Bawtry (Hesley Hall)	51	23	45·3	32·0	38·5	− 2·0	9	36	2	0·53	+ 0·17	*	*	*	*
	Nottingham	54	25	46·3	32·7	39·3	− 1·3	12	34	3	0·49	+ 0·13	17·7	—	22	—
	Colly Weston (Stamford)	58	26	48·4	32·9	40·4	− 0·1	18	35	2	0·15	− 0·20	*	*	*	*
	Cheadle Ⓡ	52	30	44·6	32·7	38·5	− 0·9	7	33	2	0·35	− 0·15	*	*	*	*
	Birmingham (Edgbaston)	53	26	46·0	33·2	39·4	− 0·9	11	32	3	0·48	+ 0·13	12·2	—	16	—
	Shrewsbury	56	23	47·6	30·6	38·9	− 2·2	16	42	3	0·29	—	*	*	*	*
	Hereford Ⓡ	55	26	48·1	31·1	39·4	− 1·9	17	41	2	0·53	+ 0·15	*	*	*	*
	Cirencester	58	24	49·5	31·2	40·1	+ 0·2	21	41	3	0·33	− 0·14	35·2	+ 10·4	45	+ 13
	Oxford	60	27	48·7	33·4	40·8	− 0·5	19	33	3	0·29	− 0·06	30·8	+ 6·5	39	+ 8
5. ENGLAND, S.	London	60	29	49·0	35·3	42·0	+ 0·3	20	19	3	0·18	− 0·17	20·8‡	+ 3·8‡	26‡	+ 5‡
	Wisley	59	25	47·9	32·9	40·2	− 1·7	17	35	2	0·13	—	26·0	—	33	—
	Swarraton (Alresford) Ⓡ	57	25	48·1	33·5	40·6	+ 0·5	17	33	2	0·32	− 0·17	*	*	*	*
	Tunbridge Wells Ⓡ	57	28	48·2	33·8	40·8	+ 0·7	17	32	1	0·20	—	30·3	—	38	—
	Dungeness	51	30	45·7	35·9	40·7	− 0·3	10	23	2	0·07	− 0·25	25·8	—	33	—
	Hastings (St. Leonards)	55	33	46·3	37·3	41·7	+ 0·3	12	19	2	0·10	− 0·35	33·2	+ 4·0	42	+ 5
	Southampton	60	30	50·5	35·8	42·9	+ 0·2	32	17	2	0·35	− 0·12	37·4	+ 10·4	47	+ 13
	Portland Bill	57	32	47·3	36·7	41·8	− 1·6	15	21	3	0·30	—	*	*	*	*
	Shaftesbury Ⓡ	56	30	46·2	34·2	40·0	− 0·2	12	29	2	0·47	− 0·03	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	49	26	44·2	30·5	37·2	− 3·7	6	41	2	0·09	− 1·35	*	*	*	*
	Glasgow	46	31	41·8	31·9	36·7	− 3·1	0	37	3	0·17	− 0·42	23·2	+ 5·6	30	+ 7
	Cally Ⓢ	51	24	47·0	29·4	37·9	− 2·5	14	46	3	0·90	+ 0·06	*	*	*	*
	Aspatria	46	27	41·7	30·9	36·1	− 4·0	0	41	1	0·57	—	26·2	—	34	—
	Douglas (Isle of Man)	48	28	43·3	33·2	38·1	− 3·2	4	31	4	0·87	+ 0·21	29·1	+ 1·6	37	+ 2
7. ENGLAND, N.W.	Newton Rigg	48	25	39·5	29·3	54·3	− 4·3	0	54	4	0·44	—	21·9	—	28	—
	Stonyhurst	45	27	42·1	32·2	37·0	− 3·1	0	33	2	0·26	− 0·52	20·0	− 2·0	25	− 3
	Blackpool Ⓡ	50	25	45·6	30·8	38·0	− 2·7	10	40	3	0·34	− 0·16	21·0	− 1·2	27	− 2
	Manchester (Prestwich)	52	27	44·3	32·2	38·1	− 2·2	6	35	2	0·21	− 0·34	13·9	—	18	—
	Liverpool Obsy. (Bidston)	52	27	44·6	33·7	39·0	− 2·4	7	30	2	0·51	+ 0·13	20·6	—	26	—
	Chester (Hawarden Bridge)	55	24	46·0	31·5	38·5	− 3·5	11	38	2	0·44	—	*	*	*	*
	Llandudno Ⓡ	52	30	46·0	34·0	39·8	− 2·9	11	29	2	0·15	− 0·30	22·5	− 0·9	29	− 1
	Holyhead	49	32	44·4	34·7	39·4	− 3·1	7	26	2	0·70	+ 0·18	*	*	*	*
	Bettws-y-Coed	54	25	46·3	31·6	38·7	− 3·6	12	38	3	0·18	—	22·8	—	29	—
8. ENGLAND, S.W.	Pembroke	50	32	46·1	36·6	41·2	− 1·5	11	21	2	0·66	+ 0·12	26·9	− 1·1	34	− 1
	Clifton	58	30	48·8	34·1	41·2	− 1·0	19	31	3	0·50	− 0·03	*	*	*	*
	Bath	59	25	48·9	32·3	40·4	− 1·3	19	37	4	0·29	− 0·21	31·6	—	40	—
	Arlington (N. Devon)	57	28	47·6	32·9	40·0	− 0·8	16	34	2	0·34	− 0·48	*	*	*	*
	Cullompton Ⓡ	58	26	48·9	32·8	40·6	− 2·2	19	35	2	0·71	+ 0·16	33·7	+ 8·0	43	+ 10
	Falmouth	55	35	48·0	40·2	44·0	− 0·3	22	5	5	0·67	− 0·10	31·5	+ 2·1	40	+ 3
	Plymouth	59	30	49·4	37·6	43·3	− 0·3	28	12	3	0·85	+ 0·26	33·3	+ 4·9	42	+ 6
9. IRELAND, N.	Malin Head	48	33	43·0	33·9	38·3	− 3·9	3	28	4	0·15	− 0·33	*	*	*	*
	Edenfel (Omagh)	48	23	43·9	28·7	36·1	− 3·9	5	46	3	0·14	− 0·43	*	*	*	*
	Blacksod Point	48	32	44·7	35·3	39·9	− 3·5	8	25	1	0·04	− 0·77	*	*	*	*
	Markree Castle	50	23	45·3	28·3	36·6	− 4·9	9	49	2	0·05	− 0·60	32·7	+ 10·7	42	+ 14
	Armagh	51	28	44·6	31·3	37·8	− 3·2	7	38	3	0·22	− 0·24	32·1	+ 10·5	41	+ 14
	Donaghadee	48	30	43·7	34·4	38·9	− 3·0	5	27	2	0·24	− 0·21	*	*	*	*
10. IRELAND, S.	Dublin	49	29	45·4	35·2	40·2	− 2·9	10	25	3	0·67	+ 0·21	29·3	+ 3·7	37	+ 5
	Birr Castle	50	25	46·0	30·7	38·1	− 3·6	11	41	4	0·11	− 0·38	28·0	+ 4·6	35	+ 6
	Kilkenny	52	24	45·9	32·6	39·1	− 3·5	11	35	3	0·23	− 0·25	*	*	*	*
	Waterford	51	30	47·0	38·0	42·4	− 0·2	20	11	3	0·62	− 0·04	*	*	*	*
	Roche's Point	52	33	46·3	36·3	41·2	− 3·1	12	22	5	0·46	− 0·34	*	*	*	*
	Valencia	53	31	47·0	35·3	41·0	− 4·3	14	26	3	0·13	− 0·81	28·5	+ 0·9	36	+ 1
	Killarney	53	30	44·7	34·7	39·6	− 4·5	8	27	3	0·13	− 0·76	*	*	*	*
	Foynes	49	29	45·5	32·2	38·7	− 4·7	10	36	2	0·34	− 0·26	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	36	49·7	39·9	44·7	− 1·1	28	6	2	0·31	− 0·22	29·2	− 0·6	37	− 1
	Jersey	56	37	49·7	39·9	44·7	+ 0·4	28	6	2	0·20	− 0·33	42·4	+ 10·1	54	+ 13

Stations Marked Ⓡ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

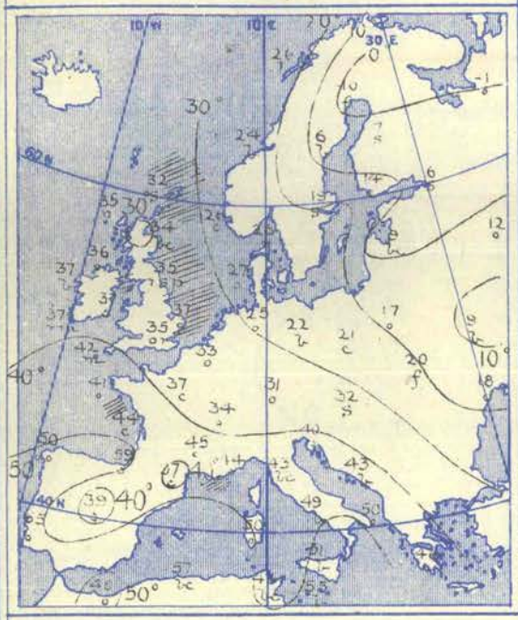
† The Sunshine values at Felixstowe are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 6th March, 1904.

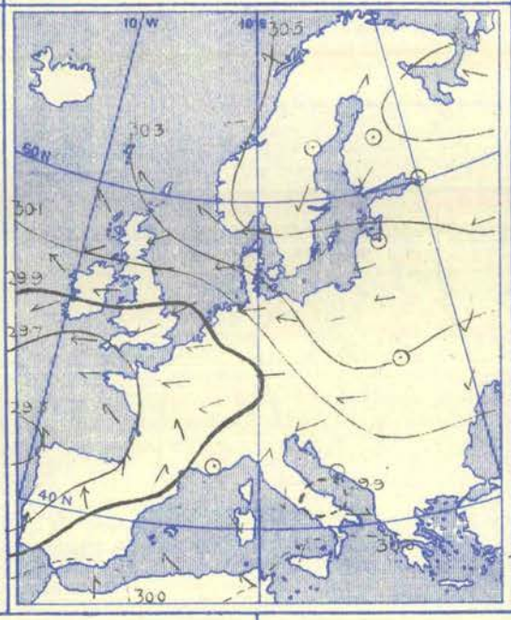
Temperature and Weather. 8 a.m.



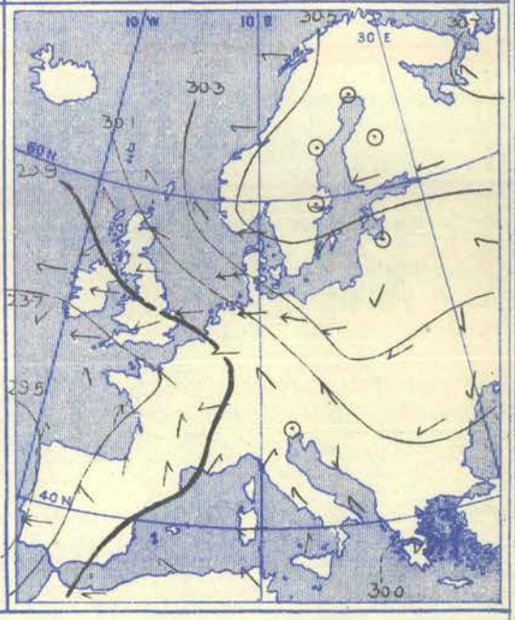
Weather in morning cloudy or dull generally, with rain, sleet, or snow in various parts of Ireland and England, rain at Le Mans, and snow at Sumburgh Head, Stockholm, Kuopio, St. Petersburg, and Buda-Pesth. Sky clear at several stations in the far north and extreme south of our area. Small amounts of precipitation experienced later over the United Kingdom and at scattered places on the Continent, but as much as 0·8 in. at Lisbon.

Temperature risen over France, changed irregularly or fallen elsewhere. Readings at 8 a.m. highest, 57° at Algiers, 55° at Malta, Lisbon, Barcelona, and Palma. Lowest, (1) −10° at Haparanda, −1° at Archangel, +4° at Helsingfors, 9° at Memel and Kiev, and 12° at Moscow, (2) 26° at Nairn, 34° or 35° over central Ireland and England, (3) 39° at Madrid. Exceeding 60° in many Mediterranean regions during day, and touching 70° at Algiers. Very severe frost continuing over northern and eastern Europe, and maximum readings remaining below 40° at nearly all our own stations.

Barometer and Wind. 8 a.m.



6 p.m.

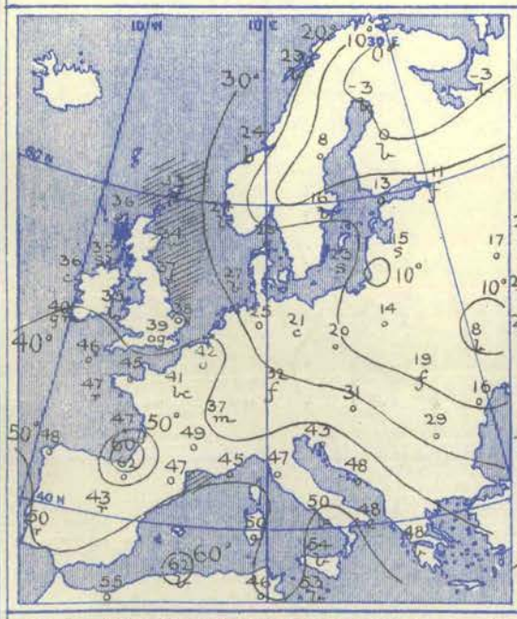


Wind Easterly over the major portion of our area, but Southerly over the Spanish Peninsula and the south of France, and showing a cyclonic movement over Italy. Fresh or strong in many parts of the British Islands and on the eastern shores of the North Sea; a fresh gale prevailing at Fanö. Very little change occurring later.

Barometer at 8 a.m. ranging from above 30·3 ins. to 30·7 ins. and upwards in a large anticyclone centred over the north of Russia, to below 30·0 ins. in a shallow depression over Italy and the Adriatic, and to less than 29·5 ins. in a deeper system lying off the north-west of Spain. Another depression apparently reaching the south of Portugal by evening; barometer falling slowly except over Italy.

Monday, 7th March, 1904.

Temperature and Weather. 8 a.m.

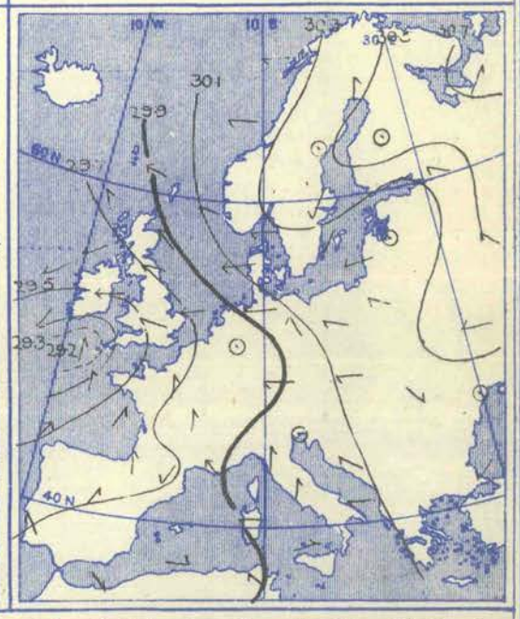


Weather at 8 a.m. fine and bright in many parts of northern Europe; cloudy or dull elsewhere, with snow in Denmark, at Wisby and Prague, rain in the Iberian Peninsula and along the west coast of France, and rain, sleet, or snow in many British localities. Rain falling later at almost all our own stations and in the south-western parts of the Continent, and rain or snow in some central and northern regions—heaviest amounts, 0·47 in. at San Fernando and 0·62 in. at Pembroke.

Temperature risen in most places. Morning readings ranging from 62° at Algiers and Biarritz, 57° at Palma, and 54° at Palermo and Barcelona, to below 40° over the major portion of the United Kingdom, to below 20° at some stations in central Europe, and to below 10° in the north-east. Lowest values, zero at Kuopio and −3° at Haparanda and Archangel. Maxima during day exceeding 45° in many parts of our Islands and 60° in most southern regions. Highest readings, 69° at Perpignan and 79° at Algiers.

Barometer and Wind. 8 a.m.

6 p.m.



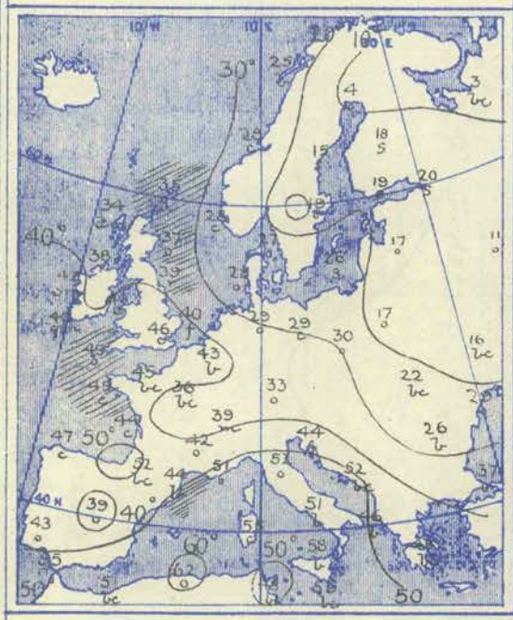
Wind continuing moderate to strong from the Eastward over Denmark and these Islands, and light or moderate from North-East or East in most other European districts. Moderate to strong Southerly winds prevailing in the Peninsula and the south of France. Shifting to South or South-East over the western half of the English Channel by evening; increasing to a fresh gale from East at Fanö.

Barometer at 8 a.m. ranging from between 30·2 ins. and 30·7 ins. in a large anticyclone over the north-eastern half of our area, to below 29·4 ins. in a depression over the Bay of Biscay. Latter system moving northwards to our south-west coasts by evening, and barometer rising again over Spain and the Bay of Biscay. Gradients increasing in all the more northern countries. Depression subsequently remaining stationary and beginning to disperse.

Tuesday, 8th March, 1904.

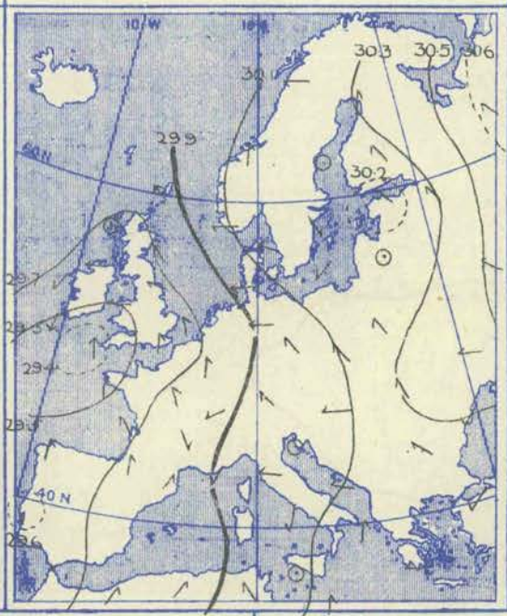
Temperature and Weather.

8 a.m.

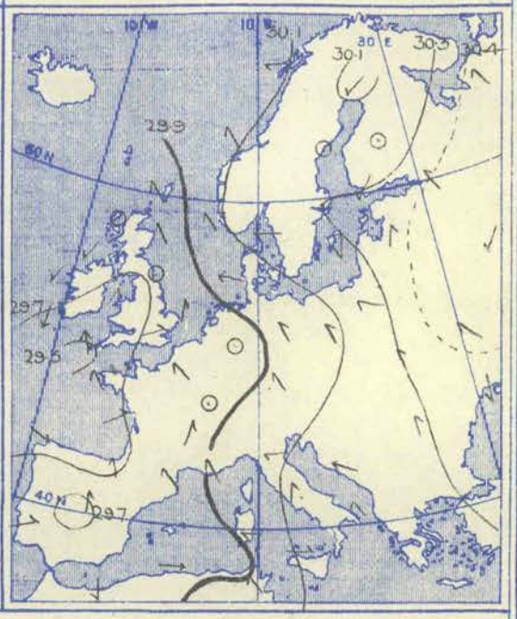


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. fine and bright at various stations in the south of our area, but dull or very cloudy generally. Rainy at San Fernando, Limoges, and in some of our own northern districts, and snow falling in Finland and at Hernösand and Wisby. Rather heavy rain experienced later over the Iberian Peninsula and the adjacent portion of France, and considerable falls at some of our own stations.

Temperature fallen over France and the Iberian Peninsula, risen elsewhere. Morning readings highest, 62° at Algiers, 58° at Palermo, 55° at San Fernando, and 53° at Barcelona and Nice. Lowest, (1) 3° at Archangel, 4° at Haparanda, 8° at Karlstadt, 11° at Moscow, (2) 22° at Lemberg, 26° at Hermanstadt, (3) 34° at Stornoway, 36° at Nairn, (4) 39° at Madrid. Rising later to 55° at Bath and Oxford, 58° in London, to above 60° in Italy and the south of France, and to above 70° in Sicily and Algeria. Highest value, 77° at Algiers. Frost continuing over the north and east of Europe.

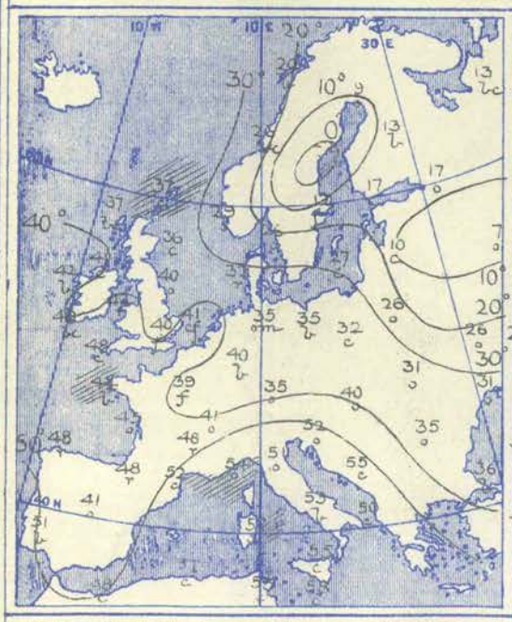
Wind at 8 a.m. showing several complete or partial cyclonic circulations, but of no great strength. Easterly wind strong over Denmark, and North-Easterly wind blowing strongly in the west of Ireland. Very little change occurring later.

Barometer in morning ranging from 30·6 ins. and upwards over the north of Russia, to below 30·2 ins. in a depression over the Gulf of Finland, to less than 29·6 ins. in another system situated near Lisbon, and to 29·4 ins. and less in a third disturbance off our south-west coasts. Gradients moderate or slight generally, but steeper over the North Sea. Pressure giving way over northern Europe during day, and increasing over the United Kingdom, France, and Portugal. Depression off our south-west coasts becoming less deep.

Wednesday, 9th March, 1904.

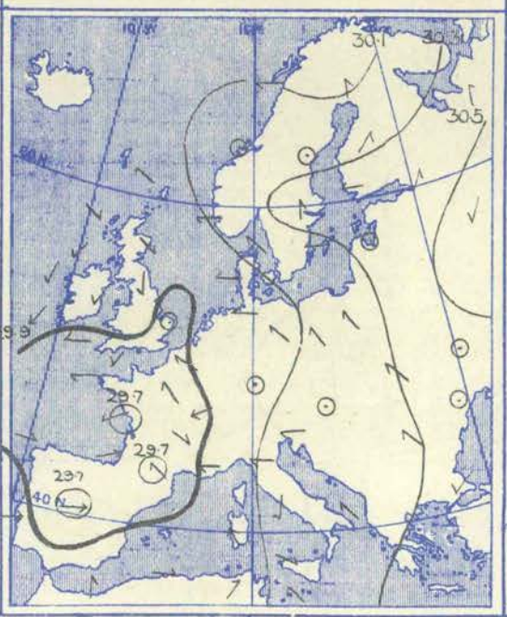
Temperature and Weather.

8 a.m.

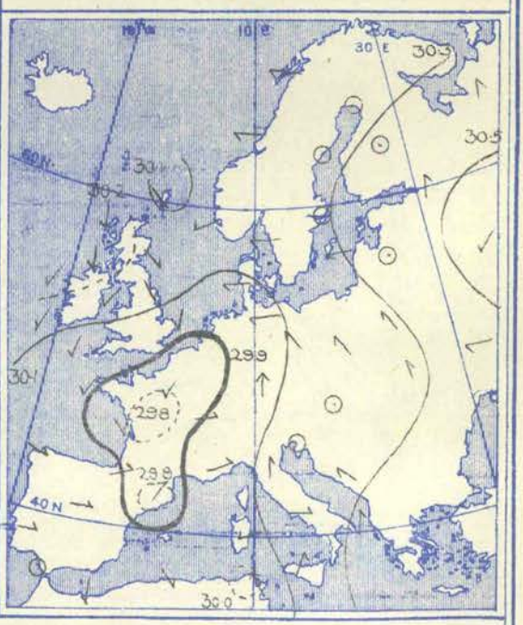


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. fine on our most western and northern coasts and at several Scandinavian stations, but dull or very cloudy over Europe as a whole. Rainy in the north of Spain, at Biarritz, Lyons, Turin, Shields, and Holyhead, and foggy at Stockholm, Paris, in the centre and east of England, and in Bohemia. Slight thunder showers occurring at Portland and in London later, but weather remaining dry over our Islands generally. Rather heavy rain experienced in some southern regions—0·79 in. at Biarritz and 1·0 in. at Turin.

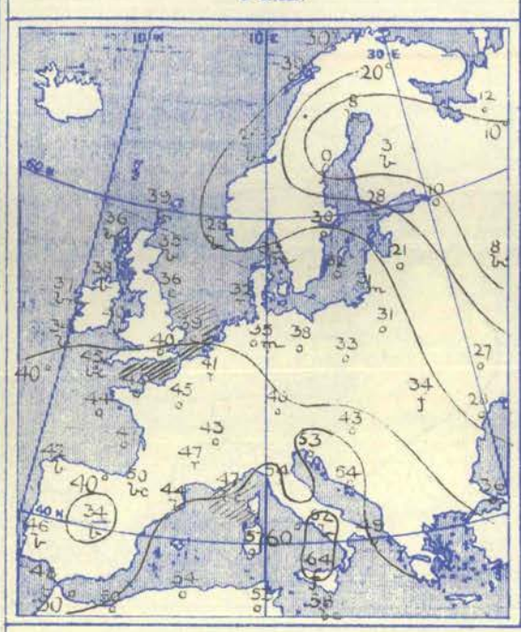
Temperature risen over central Europe, fallen elsewhere. Morning readings highest, 58° at Malta, 57° or 56° at a few other Mediterranean stations. Lowest, (1) −2° at Hernösand, 7° at Moscow, 10° at Riga, 12° at Kharkov, (2) 32° at Wick and Nairn, 34° at Parsonstown, and 35° at Bath, (3) 41° at Madrid. Maxima during day not much above 40° in the north and north-east of Great Britain, but as high as 60° in London and at Oxford, a few degrees higher in Italy and the south-east of France, and above 70° in Sicily and Algeria.

Wind in morning mainly anticyclonic and light, but some partial or complete cyclonic circulations shown over our Islands, France, and the Mediterranean. Scarcely any change experienced later.

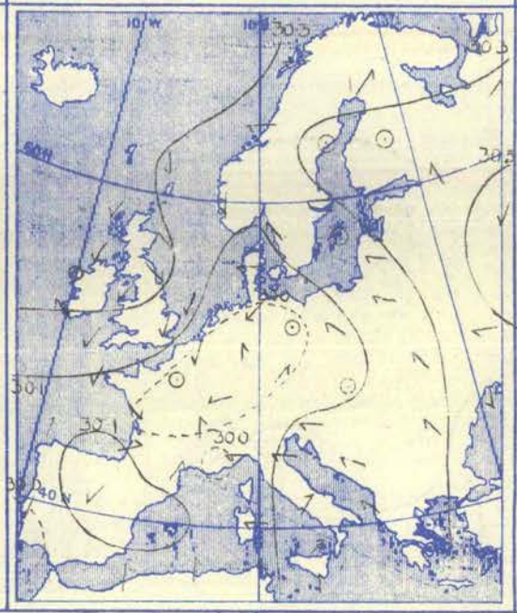
Barometer at 8 a.m. highest, 30·5 ins. and upwards in a large anticyclone having its centre over Russia; lowest, 29·8 ins. to less than 29·7 ins. in a complex depression over the Bay of Biscay and the western half of France. Relatively low in some very shallow and ill-defined disturbances in the Mediterranean and the neighbourhood of our Islands. Gradients slight or moderate. Depressions decreasing in depth later, and a fresh anticyclone spreading over our north-western districts from the Atlantic. Gradients increasing somewhat over the southern half of England.

Thursday, 10th March, 1904.

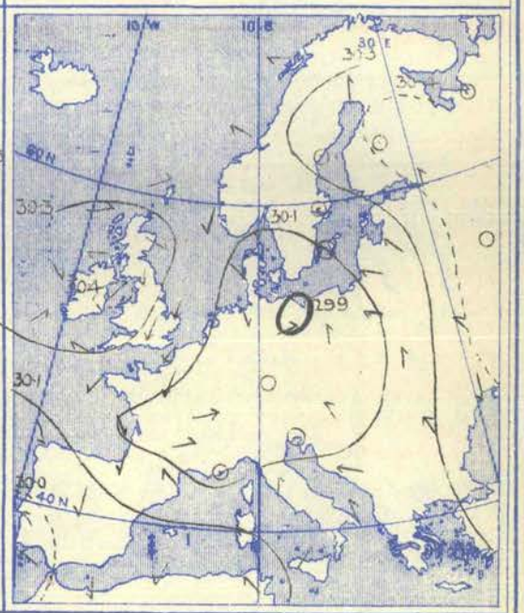
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over the United Kingdom, the Iberian Peninsula, the extreme south of France, and the west of Norway; cloudy or dull in most other regions. Rain falling at many French stations, as well as at Brussels, Frankfurt, and Fanö, and snow at Hango. Thunder reported at Sanguinaires and fog over central Europe. Some precipitation experienced later over France, Scandinavia, and Germany, but amounts not large.

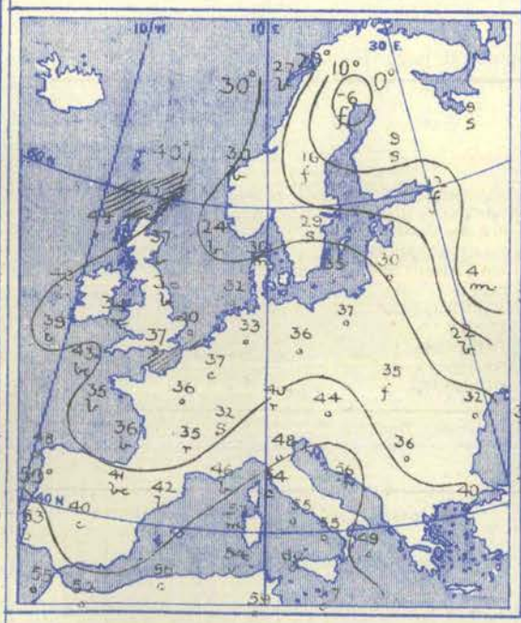
Temperature changed irregularly as a whole, but fallen in most parts of the United Kingdom. Morning readings ranging from 64° at Palermo and 62° at Rome, to below 40° over the central countries and at Madrid, to below 30° in Norway, to 10° at Kharkov and St. Petersburg, 8° at Moscow and Haparanda, 3° at Kuopio, and zero at Hernösand. Rising later to 55° at Clacton, 64° at Perpignan and Malta, and to 72° at Palermo, Tunis, and Sfax. Severe frost continuing in northern and eastern Europe.

Wind fresh or strong from the North-Eastward on the east coast of England and over the English Channel, but light or moderate over our area generally. Direction rather variable; mainly from South or South-East over the eastern countries. No general change later, but a strong Easterly wind setting in at San Fernando, and a moderate East-South-East gale at Lésina.

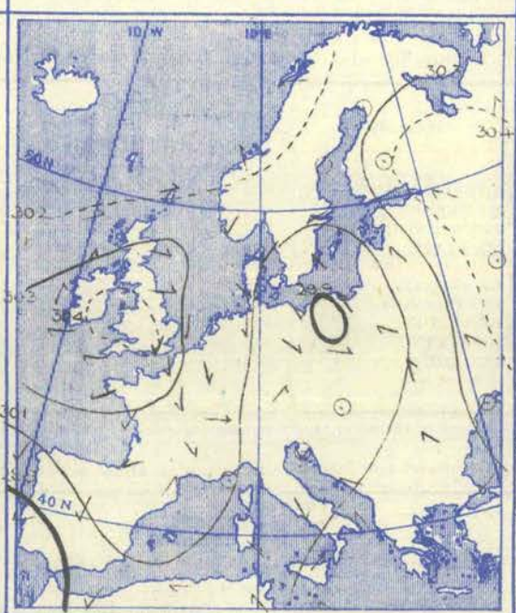
Barometer at 8 a.m. ranging from 30·5 ins. and above in an anticyclone over Russia, and above 30·3 ins. in another over our own western and northern districts, to less than 30·0 in. in a large depression embracing the major portion of France and the western half of Germany, and in a small minimum off the south of France. Russian anticyclone giving way somewhat during day, and that over our Islands increasing in intensity. Large depression on the Continent travelling eastwards.

Friday, 11th March, 1904.

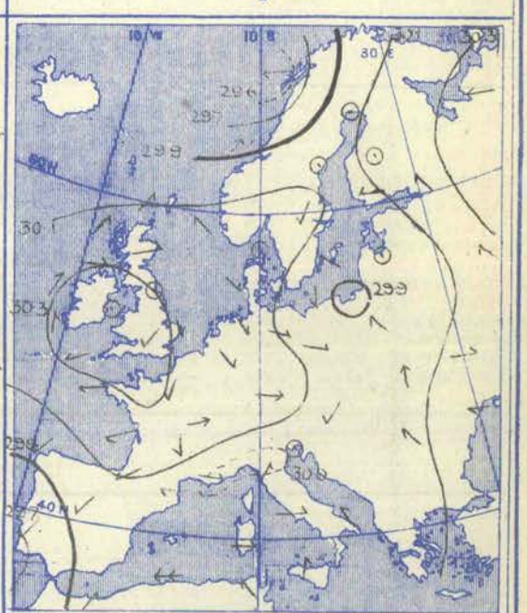
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in Norway, most parts of our Islands, and the west of France; cloudy or dull elsewhere, with rain at Lésina, Munich, Frankfurt, Munster, and Lyons, and snow at Belfort, Stockholm, Archangel, and in Finland. Very little precipitation over our area as a whole during the ensuing twenty-four hours, but 0·51 in. experienced at Christiansund and 0·35 in. at Stockholm.

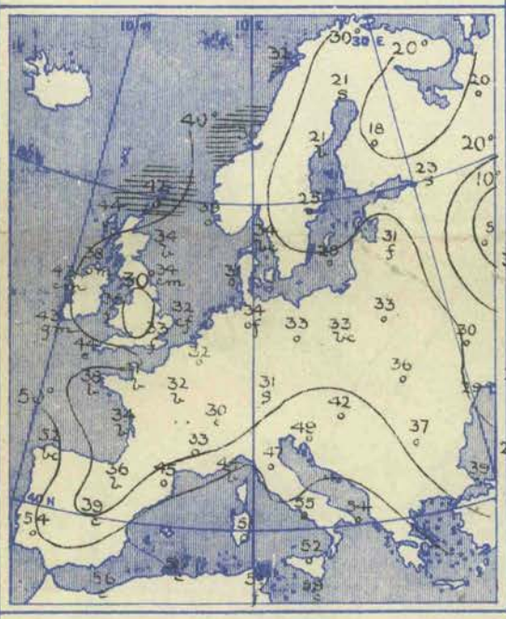
Temperature changed irregularly—fallen over England and France. Readings at 8 a.m. highest, 60° at Palermo, 59° at Sfax, 56° at Lésina, and 55° at San Fernando and Oporto. Lowest, (1) −6° at Haparanda, +4° at Moscow, 9° at Archangel, 12° at St. Petersburg, (2) 28° at Parsonstown, 30° at Bath, 32° at Nottingham, (3) 32° at Le Mans and Belfort. Rising subsequently to about 50° in various parts of our Islands, and to above 60° in most Mediterranean and Spanish regions. Highest reading, 68° at Palermo and Tunis.

Wind at 8 a.m. showing an extensive but gentle cyclonic circulation over the greater part of the Continent and a well-defined anticyclonic movement over our Islands and their neighbourhood. No general change later, but wind increasing to a strong gale from South-West at Christiansund, and to a fresh gale from East at San Fernando.

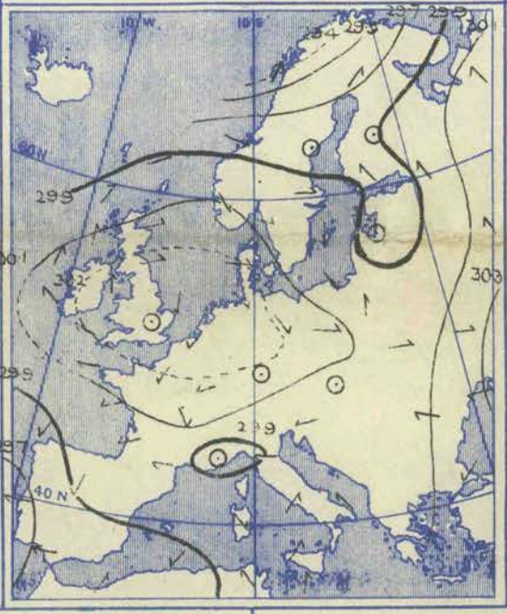
Barometer in morning ranging from above 30·4 ins. (1) in a large anticyclone over Russia, and (2) in a smaller system having its centre over the Irish Sea, to 29·9 ins. and less in a depression over the north-east of Germany, and also in another system in the extreme south-west of our area. A large depression advancing to the north of Norway by evening, and another disturbance spreading over the Spanish Peninsula. German minimum remaining stationary. Both the Russian and British anticyclone decreasing in intensity.

Saturday, 12th March, 1904.

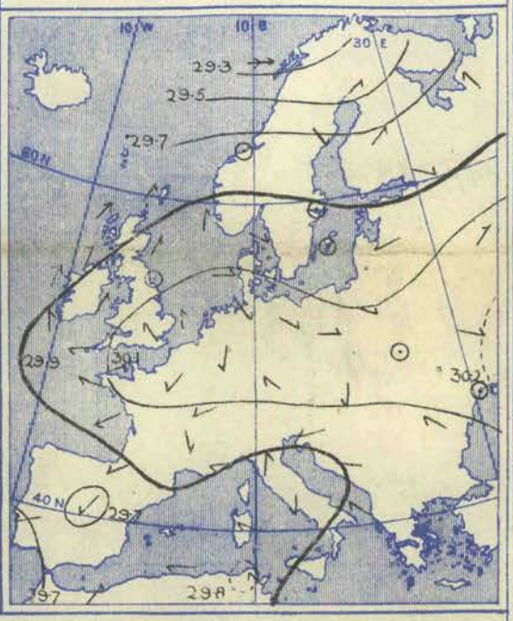
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather cloudy or overcast over our area as a whole, but fine at many Swedish and French stations. Fog prevailing in many parts of England, rain falling at Neu-Fahrwasser and Christiansund, and snow at Munich, in the Gulf of Finland, and the north of Scandinavia. Rain experienced later in the extreme north and west of our Islands and in a few Continental and Algerian localities—1·4 ins. at Oran, 0·4 in. at Lisbon and Alicante, and 0·3 in. at Trieste.

Temperature risen quickly in the extreme north, fallen in most other regions. Morning readings ranging from 59° at Malta, 58° at Algiers, and 56° at Oporto, to 39° at Madrid, a few degrees lower over central Europe, to below 30° over central England, 20° at Karlstad, 18° at Kuopio, and to 5° at Moscow. Rising during day to about 56° at a few of our own stations, to a little below or above 60° in most southern localities, and to 70° at Algiers and La Calle. Frost at night over the inland parts of our Islands.

Wind at 8 a.m. strong from West or South-West over the north of Scandinavia; showing an anticyclonic circulation around England and Germany, a cyclonic circulation of little strength around the Gulf of Genoa, and a similar movement around the Gulf of Riga and its neighbourhood. Wind increasing to a strong breeze from the Southward on our north-west coasts by evening, and to a gale from West at Bodö. Cyclonic circlations dying out in the south.

Barometer in morning ranging from above 30·3 ins. in an anticyclone over the south-east of Russia, and 30·1 ins. to 30·2 ins. and upwards in another system embracing the greater portions of the United Kingdom, the North Sea, Germany, and France, to 29·85 ins at Cape Sicié, 29·82 ins. at Riga, 29·64 ins. at Lisbon, and 29·36 ins. at Bodö. Anticyclone decreasing in intensity and moving eastwards later, and barometer falling briskly on our own western and northern coasts. A fresh minimum appearing over central Spain.

IV.—GENERAL NOTES, etc.

Until about the middle of the week the barometer continued highest in a large anticyclone of diminishing intensity centred over the north of Europe and extending towards our Islands. Pressure was at the same time lowest in the south-western parts of our area, and the general direction of the wind North-Easterly or Easterly. The Easterly current blew with considerable force in Denmark, the United Kingdom and over the North Sea, but was moderate or light generally. Later in the week the northern high pressure area moved south-eastwards to Russia, while another anticyclone arrived over these Islands from the Atlantic. A shallow area of low pressure which lay over France and the west of Germany on Thursday subsequently passed on slowly to central Europe and finally to the Baltic Provinces of Russia. Towards the end of the week the British anticyclone commenced to give way somewhat and to move eastwards, while large depressions reached the north of Norway and Lapland from the westward and the barometric fall along our western and north-western coasts became accelerated. The amount of precipitation experienced was not large over Europe as a whole, but considerable rain fell at some of our own stations during the early part of the time, and local irregularities of pressure in various parts of southern Europe were occasionally accompanied by rather heavy falls. Temperature underwent frequent and sometimes great changes. The severe frost in the extreme north and east continued uninterruptedly.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 56.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	10·8	− 11·2	14	− 15
STRATHPEFFER SPA	15·8	− 3·1	20	− 4
EDINBURGH	25·6	+ 5·7	33	+ 7
COCKLE PARK	25·2	—	32	—
NEWCASTLE-ON-TYNE	12·8	—	16	—
YORK	14·2	− 7·8	18	− 10
SKEGNESS	26·2	—	33	—
CROMER	28·9	—	37	—
LOWESTOFT	25·7	—	32	—
DUNMOW	31·7	—	40	—
SHEFFIELD	15·2	—	19	—
WORKSOP	15·6	− 5·9	20	− 8
THURCASTON	27·0	+ 5·6	34	+ 7
MARGATE	22·4	− 3·4	28	− 4
BROADSTAIRS	23·5	—	30	—
RAMSGATE	24·3	—	31	—
EASTBOURNE	32·7	+ 4·1	41	+ 5
BRIGHTON	30·6	+ 2·2	39	+ 3
WORTHING	33·8	—	43	—
BOGNOR	29·1†	—	37†	—
WESTBOURNE	31·3†	+ 4·8	43†	+ 6
VENTNOR HOSPITAL	37·3	+ 6·7	47	+ 9
BOURNEMOUTH	42·2	—	54	—
MARLBOROUGH	30·6	+ 8·2	39	+ 10
SOUTHPORT	20·4	—	26	—
RHYL	22·1	—	28	—
ABERDOVEY	44·2†	—	56†	—
TENBY	27·8	− 1·9	35	− 2
TORQUAY	36·8	+ 7·3	47	+ 9
NEWQUAY	33·5	+ 4·5	42	+ 6
GUERNSEY	39·0†	+ 7·5	49†	+ 10

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

Reports received too late for insertion in their proper places.

Report.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Mar. 5th, 1904.	Laudale	44	27	41·3	31·9	36·5	− 4·0	0	39	0	0·00	− 1·50	—	—	—	—
" " " " "	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	5·2	—	7	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 11. ELEVENTH WEEK, ENDING SATURDAY MARCH 19TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 62.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	56	18	45·9	34·0	39·8	1 above	11	0	30	2	47	− 37	356	− 34
	1. SCOTLAND, EAST	60	19	46·4	32·7	39·3	0 (average)	12	− 4	34	0	35	− 75	451	+ 14
	2. ENGLAND, N.E.	58	26	46·5	34·2	40·2	0 (average)	13	− 5	29	0	49	− 72	364	− 10
	3. ENGLAND, EAST	60	24	47·2	31·9	39·3	2 below	15	− 9	37	+ 6	66	− 76	355	− 57
	4. MIDLAND COUNTIES	56	23	47·8	32·2	39·8	1 below	16	− 8	37	+ 5	71	− 88	401	− 15
	5. ENGLAND, SOUTH	55	26	48·1	33·6	40·6	1 below	17	− 7	32	+ 8	98	− 79	314	− 4
Principal Grazing Districts.	6. SCOTLAND, WEST	54	22	46·1	36·2	41·0	0 (average)	11	− 4	22	− 3	77	− 45	302	− 11
	7. ENGLAND, N.W.	55	23	46·0	35·1	40·4	1 below	11	− 6	26	+ 1	58	− 73	331	+ 23
	8. ENGLAND, S.W.	56	28	49·0	36·1	42·3	1 below	27	+ 2	17	− 3	172	− 32	230	− 12
	9. IRELAND, NORTH	56	25	49·6	36·7	43·0	1 above	29	+ 7	15	− 7	101	− 74	284	+ 9
	10. IRELAND, SOUTH	61	26	50·8	37·2	43·8	0 (average)	33	+ 5	13	− 2	184	− 63	210	+ 9
	— CHANNEL ISLANDS	54	32	50·5	38·1	44·1	1 below	31	+ 1	11	+ 3	241	− 38	74	− 29

Rainfall.

	DISTRICTS. (See p. 62.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	6	3 less	53	+ 1	10·5	− 1·5
	1. SCOTLAND, EAST	3	2	3 less	47	+ 5	6·1	− 0·2
	2. ENGLAND, N.E.	3	2	2 less	46	+ 7	5·0	+ 0·5
	3. ENGLAND, EAST	2	1	3 less	46	+ 5	5·2	+ 0·9
	4. MIDLAND COUNTIES	3	2	2 less	52	+14	7·0	+ 1·8
	5. ENGLAND, SOUTH	1	1	3 less	52	+13	8·3	+ 2·6
Principal Grazing Districts.	6. SCOTLAND, WEST	6	10	2 more	49	+ 4	11·0	− 0·6
	7. ENGLAND, N.W.	5	7	2 more	48	+ 6	8·2	+ 1·5
	8. ENGLAND, S.W.	3	1	4 less	54	+10	11·1	+ 2·8
	9. IRELAND, NORTH	6	7	1 more	56	+ 6	8·7	+ 1·4
	10. IRELAND, SOUTH	6	8	1 more	58	+10	11·1	+ 2·0
	— CHANNEL ISLANDS	1	less than half	5 less	57	+ 9	11·7	+ 4·5

Bright Sunshine.

	DISTRICTS. (See p. 62.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	16	− 5	20	− 7	114	− 26	17	− 4
	1. SCOTLAND, EAST	17	− 7	21	− 9	118	− 56	17	− 8
	2. ENGLAND, N.E.	19	−13	23	−16	123	− 65	17	− 9
	3. ENGLAND, EAST	34	+ 1	42	+ 2	165	− 37	22	− 5
	4. MIDLAND COUNTIES	22	0	26	0	121	− 43	17	− 6
	5. ENGLAND, SOUTH	28	− 1	34	− 2	162	− 29	22	− 4
Principal Grazing Districts.	6. SCOTLAND, WEST	9	−14	11	−18	106	− 58	15	− 8
	7. ENGLAND, N.W.	11	−13	14	−16	116	− 52	16	− 7
	8. ENGLAND, S.W.	20	−10	25	−12	152	− 59	20	− 8
	9. IRELAND, NORTH	21	− 3	26	− 3	127	− 45	18	− 6
	10. IRELAND, SOUTH	16	−11	20	−14	143	− 57	20	− 8
	— CHANNEL ISLANDS	30	− 4	36	− 5	199	− 43	26	− 6

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this period was of a rather cloudy and unsettled character, but little rain was experienced except in the most western and north-western parts of the Kingdom, and a few very fair intervals occurred in the south and east.

Temperature was slightly below or just equal to the normal as a whole, but in Scotland N. and Ireland N. it was a degree above. The highest of the maxima occurred on Saturday, and ranged from 61° in England S. and 60° in Scotland E. and England E., to 54° in Scotland W. and the Channel Islands. The lowest of the minima were recorded on rather irregular dates, but mostly between the 15th and 18th. In Scotland N. the thermometer fell to 18°, and in Scotland E. to 19°, while elsewhere the minima ranged from 22° in Scotland W. and 23° in England N.W., and the Midland Counties to 28° in England S.W., and to 32° in the Channel Islands.

Rainfall exceeded the mean in Scotland W., England N.W., and in Ireland, but was less than the normal over the remainder of the Kingdom.

Bright Sunshine just equalled the mean in the Midland Counties, and slightly exceeded it in England E.; in all other districts it was deficient. The percentage of the possible duration ranged from 42 in England E., 36 in the Channel Islands, and 34 in England S., to 20 in Scotland N. and Ireland S., 14 in England N.W., and to 11 in Scotland W. The highest percentage at any individual station was 55 at Cromer, and the lowest, 8 at Newcastle-on-Tyne.

Barometer and Wind. The general type of pressure distribution during this week was South-Westerly, with the barometer highest on the Continent and depressions skirting our western and north-western coasts. The only exceptions occurred on Monday, when a large and irregularly shaped shallow disturbance passed eastwards directly over the Kingdom, and on the succeeding day, when an anticyclone of no great intensity followed in a similar track. The wind was consequently variable at times, especially in the south and south-east, but the current most prevalent was between south and south-west; it blew freshly at times on our most western and north-western coasts, and towards the end of the week attained the force of a slight gale.

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II.—DATA from which the SUMMARY on page 61 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	47	29	43·0	35·1	38·9	+ 0·7	3	24	6	0·36	− 0·28	*	*	*	*
	Stornoway	52	26	45·9	34·7	40·1	+ 0·7	11	27	7	0·73	− 0·05	13·8	− 9·9	17	− 12
	Wick	56	21	46·3	33·4	39·7	+ 0·5	12	32	4	0·19	− 0·26	*	*	*	*
	Lairg Ⓢ	56	18	47·5	30·8	38·9	+ 1·7	15	41	? 3	0·10	− 0·60	*	*	*	*
	Glencarron Ⓢ	52	24	45·9	33·7	39·6	+ 1·6	11	30	7	0·97	− 0·55	*	*	*	*
	Fort Augustus Ⓢ	52	22	46·6	34·4	40·3	+ 0·9	13	28	4	0·34	− 0·36	13·5	− 6·9	13	− 8
	Fort William	50	25	46·4	36·2	41·2	+ 0·9	12	23	7	1·46	+ 0·12	11·6	10·0	14	− 12
1. SCOTLAND, E.	Nairn	60	26	49·7	32·4	40·8	+ 1·3	22	37	1	0·01	− 0·36	*	*	*	*
	Aberdeen	52	27	45·1	32·9	38·8	− 1·2	9	33	3	0·11	− 0·40	19·2	− 8·1	23	− 10
	Braemar Ⓢ	50	19	41·4	30·5	35·8	− 0·3	0	43	2	0·21	− 0·34	*	*	*	*
	Ochtertyre Ⓢ	53	23	46·4	32·3	39·1	− 0·7	12	35	5	0·27	− 0·36	*	*	*	*
	Leith Ⓢ	59	29	50·3	33·9	41·9	+ 0·6	23	33	2	0·32	+ 0·02	*	*	*	*
	Marchmont Ⓢ	51	28	45·3	33·9	39·4	+ 0·6	9	29	2	0·22	− 0·32	17·4	− 6·1	21	− 8
2. ENGLAND, N.E.	Alnwick Castle	55	28	46·5	33·6	39·9	+ 0·1	13	32	2	0·05	− 0·48	*	*	*	*
	Durham	54	27	45·2	33·2	39·0	− 0·9	9	32	3	0·11	− 0·32	14·7	− 10·8	18	− 13
	Shields	54	31	46·3	35·1	40·5	0·0	12	26	3	0·05	− 0·34	*	*	*	*
	Scarborough Ⓜ	58	35	46·4	36·7	41·4	+ 0·5	12	21	4	0·32	− 0·08	15·9	—	19	—
	Spurn Head	55	32	46·9	34·0	40·3	− 0·3	14	30	3	0·32	+ 0·06	*	*	*	*
	Lincoln	55	26	47·7	32·4	39·8	− 1·5	16	36	4	0·31	+ 0·01	*	*	*	*
	Fulbeck (Lincolnshire)	—	—	—	—	—	—	—	—	4	0·20	− 0·09	28·4	—	35	—
3. ENGLAND, E.	Hillington Ⓜ	60	24	50·0	31·0	40·2	− 1·0	22	42	2	0·22	− 0·14	31·1	+ 4·5	38	+ 6
	Yarmouth	50	31	44·4	33·7	38·9	− 1·4	7	30	1	0·03	− 0·35	*	*	*	*
	Geldeston	60	26	48·4	30·9	39·4	− 1·9	18	42	2	0·05	− 0·30	35·5	+ 6·3	43	+ 8
	Cambridge	59	24	50·1	30·4	40·0	− 1·5	23	45	2	0·06	− 0·24	26·2	− 2·1	32	− 3
	Felixstowe	56	28	44·2	33·3	38·6	− 2·7	6	31	1	0·03	—	43·3†	—	53†	—
	Clacton-on-Sea	51	27	44·6	32·4	38·3	− 3·6	7	34	2	0·07	—	43·3†	—	53†	—
	Rothamsted	54	26	48·3	30·5	39·1	− 2·1	18	43	2	0·08	− 0·29	23·2	− 4·0	28	− 5
	Shoeburyness	57	27	47·6	33·3	40·2	− 1·6	16	33	2	0·07	− 0·20	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	55	25	44·9	32·7	38·6	− 0·9	8	33	5	0·50	+ 0·02	16·8	—	21	—
	Bawtry (Hesley Hall)	55	26	47·3	30·9	38·9	− 2·5	15	41	4	0·46	+ 0·11	*	*	*	*
	Nottingham	54	26	47·6	29·6	38·3	− 3·1	16	45	3	0·23	− 0·12	23·1	—	28	—
	Colly Weston (Stamford)	56	25	49·1	31·3	39·9	− 1·3	20	40	3	0·08	− 0·25	*	*	*	*
	Cheadle Ⓜ	52	29	46·0	33·3	39·5	− 0·4	11	32	3	0·31	− 0·16	*	*	*	*
	Birmingham (Edgbaston)	52	29	47·0	34·2	40·4	− 0·4	14	29	2	0·12	− 0·23	13·0	—	16	—
	Shrewsbury	55	27	49·0	34·5	41·5	+ 0·2	20	29	6	0·39	—	*	*	*	*
	Hereford Ⓜ	54	29	48·9	33·3	40·9	− 1·0	19	34	3	0·09	− 0·26	*	*	*	*
	Cirencester	53	23	48·5	29·8	38·9	− 1·5	18	46	2	0·04	− 0·40	25·0	− 1·7	30	− 2
	Oxford	54	28	49·4	32·3	40·6	− 1·3	21	37	2	0·10	− 0·23	27·5	+ 1·1	34	+ 1
5. ENGLAND, S.	London	55	28	50·3	32·1	40·9	− 1·5	23	38	2	0·07	− 0·26	14·4‡	− 4·8‡	18‡	− 6‡
	Wisley	53	27	50·6	30·6	40·3	− 2·3	24	44	2	0·05	—	25·2	—	31	—
	Swarraton (Alresford) Ⓜ	53	26	49·1	30·8	39·7	− 1·1	20	42	3	0·07	− 0·39	*	*	*	*
	Tunbridge Wells Ⓜ	53	28	47·8	31·5	39·4	− 1·6	16	39	1	0·09	—	29·6	—	36	—
	Dungeness	50	27	46·0	32·4	39·0	− 2·5	11	35	1	0·04	− 0·29	30·3	—	37	—
	Hastings (St. Leonards)	51	31	45·2	34·7	39·8	− 2·3	9	27	1	0·27	− 0·18	31·9	+ 0·4	39	+ 1
	Southampton	55	29	50·4	35·3	42·6	− 0·6	32	19	1	0·03	− 0·41	29·7	+ 0·6	36	+ 1
	Portland Bill	49	36	46·9	38·6	42·6	− 1·0	18	10	1	0·01	—	*	*	*	*
	Shaftesbury Ⓜ	51	33	46·8	36·4	41·5	+ 0·8	13	22	1	0·06	− 0·40	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	54	25	47·2	34·9	40·9	− 0·4	15	27	6	2·36	+ 1·00	*	*	*	*
	Glasgow	53	31	45·9	37·2	41·4	+ 1·2	11	18	5	0·26	− 0·29	10·2	− 9·3	12	− 11
	Cally Ⓢ	49	22	47·1	36·5	41·6	+ 1·0	14	21	6	1·28	+ 0·53	*	*	*	*
	Aspatria	50	27	45·2	34·9	39·9	− 0·5	9	26	5	0·46	—	7·1	—	9	—
	Douglas (Isle of Man)	48	28	45·2	37·4	41·2	− 0·3	9	18	7	0·48	− 0·12	10·7	− 19·6	13	− 24
7. ENGLAND, N.W.	Newton Rigg	48	23	39·1	32·2	35·6	− 3·5	0	45	5	0·31	—	9·3	—	11	—
	Stonyhurst	52	27	44·7	34·2	39·3	− 1·0	8	28	6	0·83	+ 0·07	7·4	− 16·7	9	− 20
	Blackpool Ⓜ	53	25	46·8	33·0	39·7	− 1·4	13	33	6	0·60	+ 0·14	9·7	− 14·3	12	− 18
	Manchester (Prestwich)	53	27	46·0	34·1	39·9	− 0·7	11	29	6	0·78	+ 0·23	8·5	—	10	—
	Liverpool Obsy. (Bidston)	54	30	47·4	35·4	41·2	− 0·6	15	25	5	0·66	+ 0·29	13·3	—	16	—
	Chester (Hawarden Bridge)	55	30	48·7	36·4	42·4	0·0	26	16	5	0·61	—	*	*	*	*
	Llandudno Ⓜ	55	29	49·3	37·5	43·2	+ 0·1	27	13	4	0·53	+ 0·10	17·4	− 7·5	21	− 9
	Holyhead	47	33	44·7	37·3	40·9	− 1·9	8	18	7	0·99	+ 0·50	*	*	*	*
	Bettws-y-Coed	53	27	47·3	35·6	41·3	− 1·5	15	25	5	0·59	—	12·6	—	15	—
8. ENGLAND, S.W.	Pembroke	47	33	46·0	38·7	42·2	− 0·6	15	9	4	0·15	− 0·36	13·6	− 16·8	17	− 21
	Clifton	54	32	49·3	35·2	42·0	− 0·5	20	19	3	0·10	− 0·40	*	*	*	*
	Bath	55	28	50·0	32·6	41·0	− 1·1	22	36	1	0·11	− 0·34	18·6	—	23	—
	Arlington (N. Devon)	52	30	48·3	34·3	41·1	+ 0·3	18	30	4	0·39	− 0·38	*	*	*	*
	Cullompton Ⓜ	56	29	50·5	33·7	41·9	− 1·5	24	34	2	0·02	− 0·51	18·9	− 9·4	23	− 12
	Falmouth	53	35	49·1	39·5	44·2	− 0·1	26	7	3	0·05	− 0·68	21·3	− 10·4	26	− 13
	Plymouth	52	34	49·6	38·4	43·8	− 0·2	28	10	2	0·16	− 0·40	23·9	− 6·8	29	− 8
9. IRELAND, N.	Malin Head	52	30	48·6	35·1	41·7	− 0·6	18	28	6	0·32	− 0·15	*	*	*	*
	Edenfel (Omagh)	54	25	49·9	34·1	41·8	+ 1·5	22	32	5	0·92	+ 0·36	*	*	*	*
	Blacksod Point	52	35	49·3	40·7	44·9	+ 1·3	26	4	7	0·86	+ 0·08	*	*	*	*
	Markree Castle	55	26	51·0	36·9	43·7	+ 1·9	33	14	5	0·75	+ 0·12	23·1	− 0·6	28	− 1
	Armagh	56	28	50·9	36·9	43·7	+ 2·5	33	14	6	0·76	+ 0·31	18·7	− 4·8	23	− 6
	Donaghadee	55	30	48·0	36·3	42·0	− 0·2	17	16	5	0·41	− 0·02	*	*	*	*
10. IRELAND, S.	Dublin	61	30	51·6	38·2	44·7	+ 1·3	35	11	6	0·64	+ 0·21	16·7	− 11·3	20	− 14
	Birr Castle	59	26	52·4	33·4	42·6	+ 0·4	40	24	7	0·68	+ 0·18	17·5	− 7·9	21	− 10
	Kilkenny	55	26	49·6	34·9	42·0	− 1·1	21	20	6	0·80	+ 0·33	*	*	*	*
	Waterford	52	32	50·1	38·4	44·1	+ 1·2	30	10	5	0·65	+ 0·06	*	*	*	*
	Roche's Point	52	33	48·6	37·0	42·6	− 1·8	25	14	7	0·67	− 0·07	*	*	*	*
	Valencia	52	32	49·9	38·9	44·2	− 1·1	28	9	6	0·97	+ 0·10	14·8	− 15·0	18	− 18
	Killarney	56	29	51·6	39·0	45·1	+ 0·6	34	8	4	1·01	+ 0·18	*	*	*	*
	Foynes	56	28	52·3	38·1	45·0	+ 1·5	37	11	4	0·54	− 0·01	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	40	51·3	41·1	46·1	+ 0·2	32	3	0	0·00	− 0·52	30·7	− 1·3	37	− 2
	Jersey	54	32	49·6	35·0	42·1	− 2·5	30	20	1	0·01	− 0·49	29·7	− 5·0	36	− 6

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

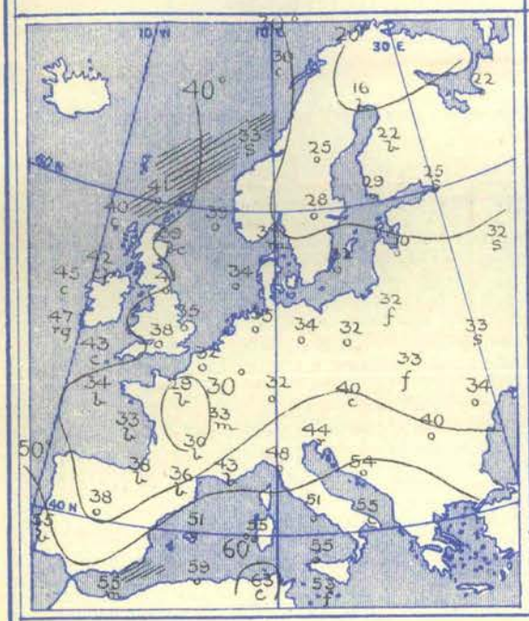
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

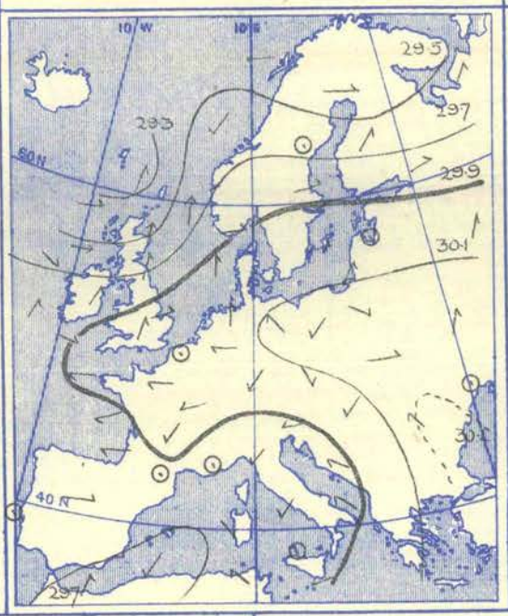
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 13th March, 1904.

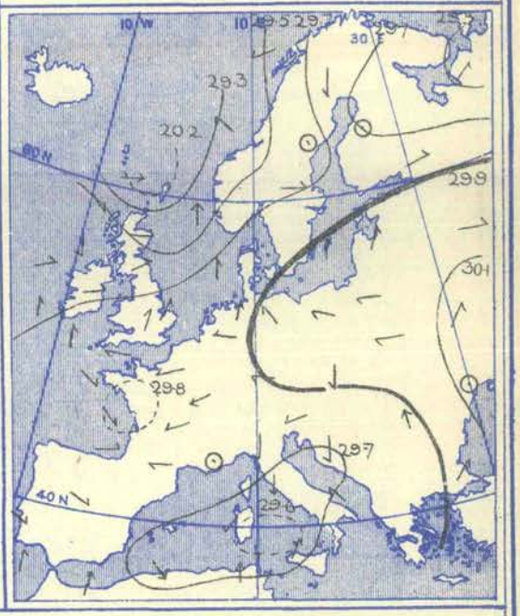
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over France and Portugal; cloudy or dull in almost all other regions, with rain at Oran, Bilbao, Trieste, and in Ireland, and snow at Christiansund and at several Russian stations. Rain later in our north-western and western districts, heavy falls in some Mediterranean regions, and no less than 2·84 ins. at Christiansund.

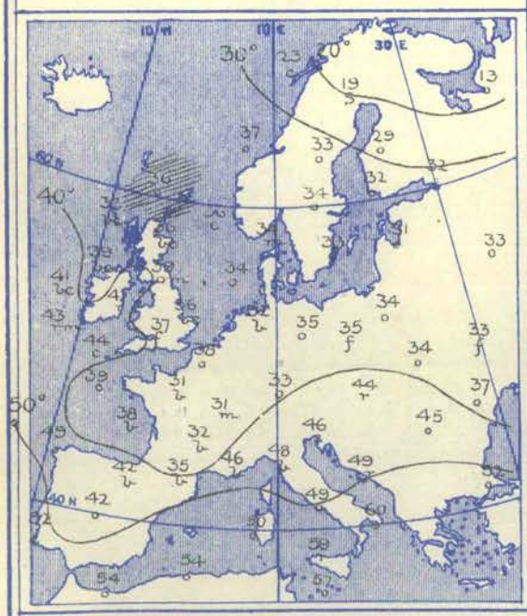
Temperature risen over the United Kingdom, Sweden, Finland, and Russia, fallen generally elsewhere. Morning readings highest, 63° at La Calle, 59° at Algiers, 55° at Lisbon, Cagliari, and Brindisi, and 54° at Lésina. Lowest, (1) 16° at Haparands, 22° at Archangel and Kuopio, (2) 29° at Paris, 30° at Lyons, (3) 34° at Bath, (4) 38° at Madrid. Rising later to about 50° in the east of Scotland, to above 60° in several parts of southern Europe, 69° at Palermo, 75° at Tunis, and 77° at Sfax.

Wind in morning moderate or fresh from between South-West and West over all the north-western and northern countries; light or moderate and rather variable elsewhere, but mainly from North-East or East. A complete cyclonic circulation setting in later around the Tyrrenean Sea, and wind veering to the North-Westward in the north of Scotland. Little other change.

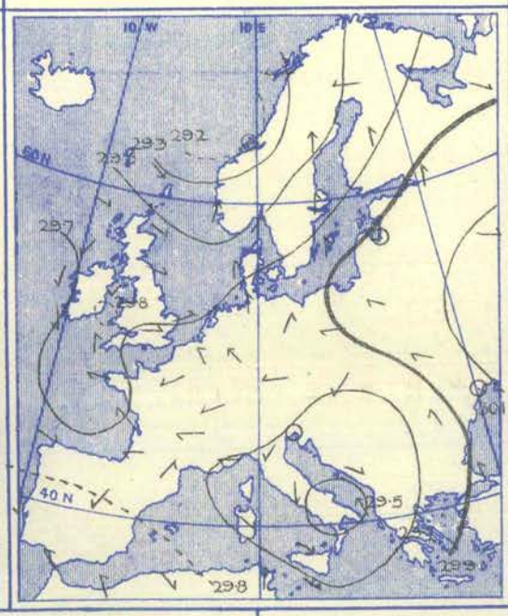
Barometer at 8 a.m. ranging from 30·0 ins. to 30·2 ins. and upwards in an anticyclone extending from France to the south of Russia, to below 29·7 ins. in a depression over Algeria, and to 29·3 ins. and less in another disturbance to the northward of Scotland. Disturbances both moving in an east-north-easterly direction during day, and anticyclone giving way on its western side. A shallow low pressure area appearing over the Bay of Biscay and the west of France, and a fresh fall of the barometer occurring in the south-west of Ireland.

Monday, 14th March, 1904.

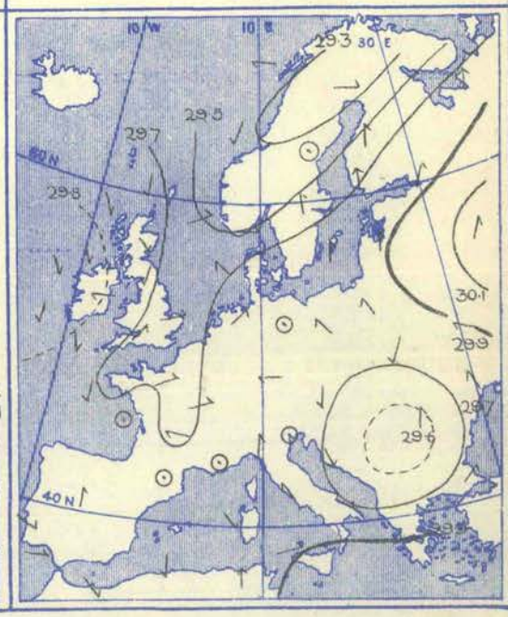
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over France and at a few of our own stations; cloudy or overcast as a whole, with rain in various parts of England and Ireland, at Vienna, Buda-Pesth, and Lésina, and snow at Wick and on the northern shores of the Gulf of Bothnia and at Helsingfors. Rain continuing all day in some parts of England, and rain or snow falling in many Continental localities—heaviest amounts, 0·59 in. at Bilbao and 0·67 in. at Kiev.

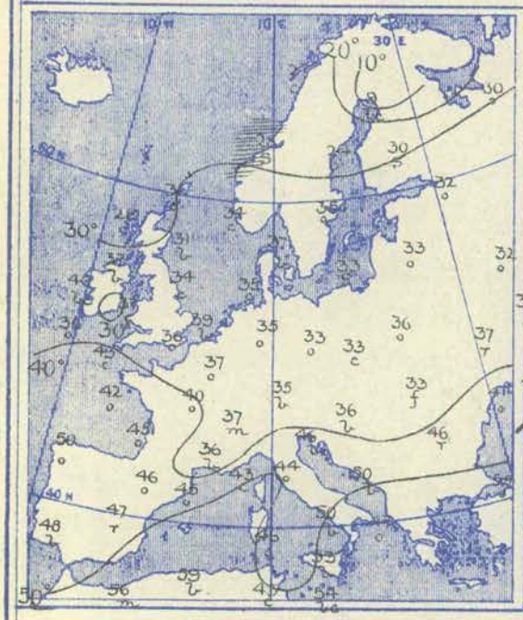
Temperature changed irregularly. Morning readings ranging from 60° at Brindisi, 59° at Palermo, and 57° at Barcelona, to below 40° over our area as a whole, and to below 20° in the extreme north-east. Lowest values, 19° at Haparanda and 13° at Archangel. Maxima during day 51° at Scilly and Jersey, some degrees higher at most French stations, above 60° in different parts of Spain and Italy, 72° at Tunis, and 79° at Sfax.

Wind light and anticyclonic over Russia; cyclonic elsewhere—a complete circulation shown around the south of Italy. North-Westerly wind in the Shetlands blowing a moderate gale, and the Southerly current in Scandinavia a strong breeze. A general decrease in force taking place later; Northerly wind spreading over the United Kingdom from the westward.

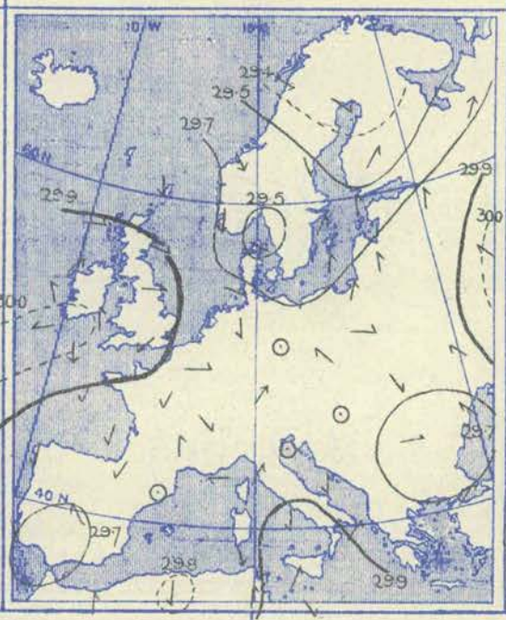
Barometer at 8 a.m. ranging from 30·2 ins. and upwards in an anticyclone over the southern half of Russia, to below 29·7 ins. in a large and irregularly shaped area over our Islands, to less than 29·5 ins. in a depression over the south of Italy, and to below 29·2 ins. in a disturbance off the west of Norway. All low pressure areas moving eastwards or north-eastwards later, and an anticyclone spreading over the United Kingdom from the Atlantic.

Tuesday, 15th March, 1904.

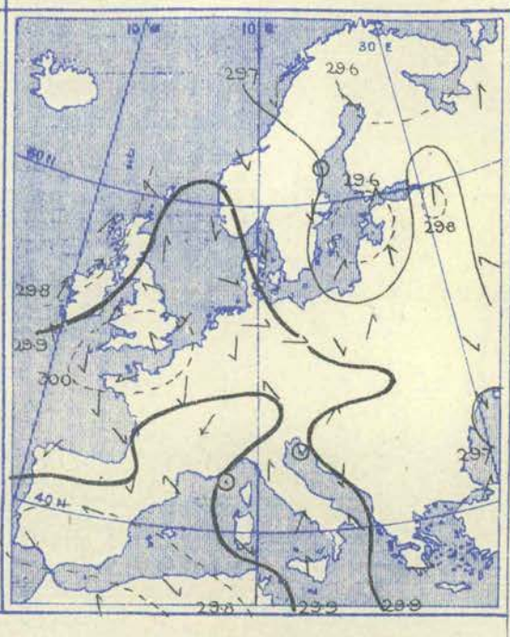
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull in most regions; snow falling at Skudesnaes, Wisby, and in Finland, and rain at Kiev, Hermanstadt, Oran, and in some parts of Spain. Fine and bright in several British localities and at various Italian stations. Some rain occurring later on our north-west coasts, and rain or snow in a few Continental districts—largest amounts, 0·51 in. at Bilbao, 1·0 in. at Constantinople, and 1·3 ins. at Helsingfors.

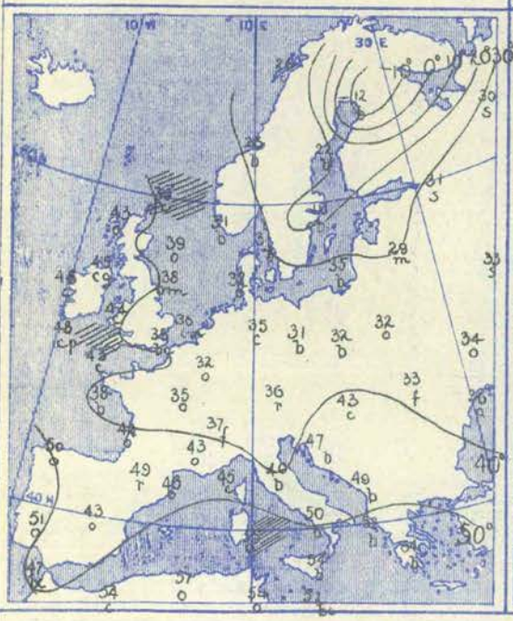
Temperature fallen in most places, but risen over France. Morning readings highest, 59° at Algiers, 57° at Sfax, and 56° at Barcelona. Lowest, (1) 9° at Haparanda, 24° at Hernösand, (2) 28° in the north of Scotland and at Parsonstown, and 32° at Nottingham, (3) 36° at Lyons. Maxima during day not touching 50° in any part of our Islands, and remaining below 32° in the extreme north of Europe, but thermometer rising to 60° or above on several shores of the Mediterranean, and to a little above 70° in Algeria.

Wind in morning anticyclonic over our Islands, but partial or complete cyclonic circulations shown in almost all other regions. Little force generally, but North-North-Westerly wind strong on the west coast of Norway. Fresh or strong South-Westerly breezes setting in on our north-western coasts by evening, and the North-North-Westerly winds decreasing in force in the west of Norway.

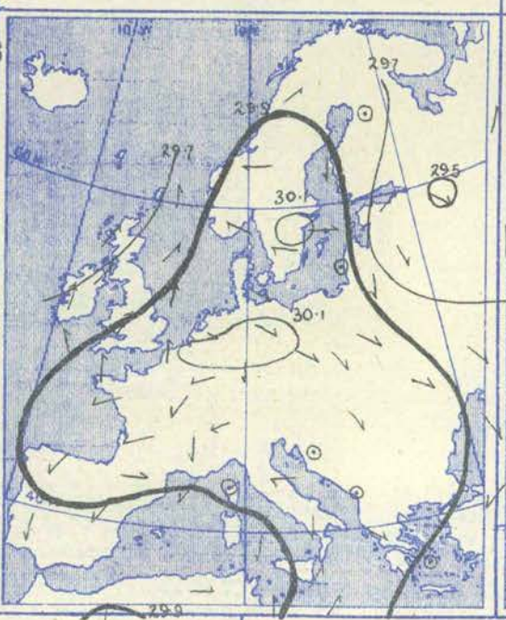
Barometer at 8 a.m. ranging from 30·0 ins. and upwards in an anticyclone over the greater part of the United Kingdom, to 29·7 ins. and less in a disturbance over Spain and in another system in the neighbourhood of the Black Sea, to 29·5 ins. and less in a minimum over the Skager Rack, to below 29·4 ins. over Lapland. Low pressure systems all moving or spreading eastwards later, and another depression approaching our north-west coasts. Anticyclone moving eastwards and becoming reduced in size.

Wednesday, 16th March, 1904.

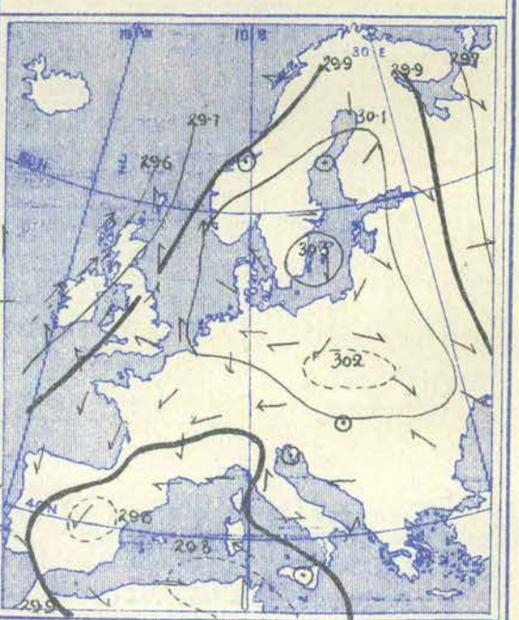
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over Scandinavia, Italy, and the south-east of England and the adjacent parts of the Continent. Showery at Valencia (Ireland), rainy at Barcelona, Bilbao, and Munich, and snow falling at Archangel, St. Petersburg, and Moscow. Heavy rain falling in Algeria later, and smaller amounts on our north-west coasts and at a few French and Spanish stations.

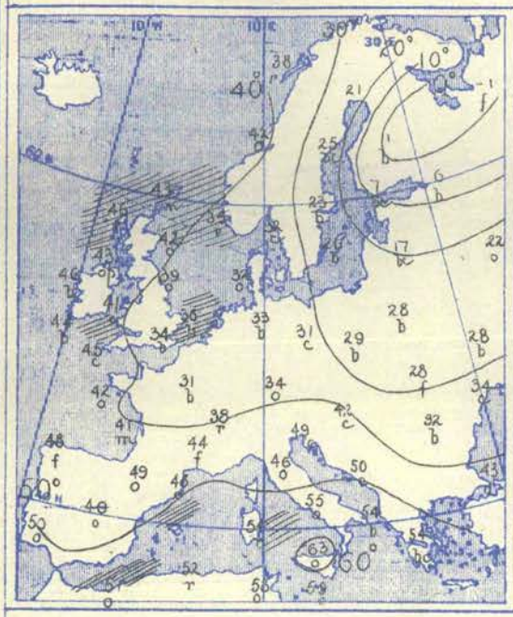
Temperature fallen over Scandinavia, risen over the United Kingdom, changed irregularly elsewhere. Morning readings highest, 59° at La Calle and Sfax, 57° at Algiers, 55° at Sanguinaires, and 54° in Greece. Lowest, (1) −12° at Haparanda, +18° at Karlstadt, (2) 33° at Limoges, (3) 35° at Oxford and in London, (4) 43° at Madrid. Rising to 55° at Nairn and Leith later, to 60° or above in the most southern localities, and to 73° at Tunis. Frost continuing in the north-east of Europe.

Wind at 8 a.m. light and anticyclonic over all the central portion of our area, but light or moderate cyclonic winds shown elsewhere. Very little change in direction later, but a considerable increase in force taking place on our north-west coasts; a fresh South-Westerly gale prevailing at Blacksod Point during night.

Barometer at 8 a.m. ranging from above 30·1 ins. in an anticyclone with two maxima—one over the south of Sweden, and the other extending from our south-east coasts to Berlin, to less than 29·6 ins. in a depression off our north-west coasts, and to 29·5 ins. and less in another system near St. Petersburg. Anticyclone increasing in intensity later, barometer falling in the north and west of our Islands, and gradients increasing considerably in the intervening regions. Russian depression travelling away eastwards.

Thursday, 17th March, 1904.

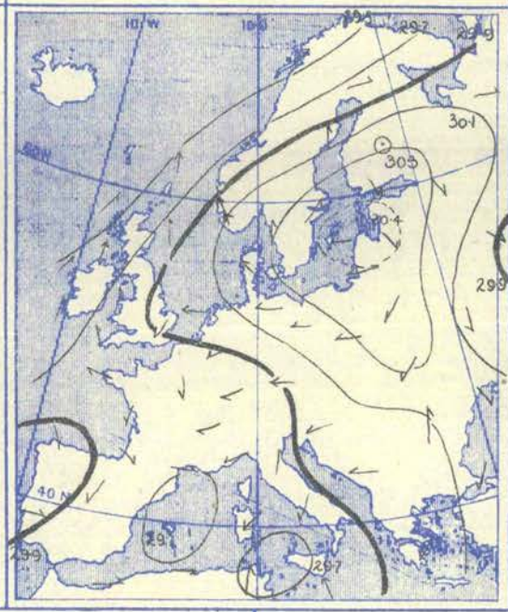
Temperature and Weather. 8 a.m.



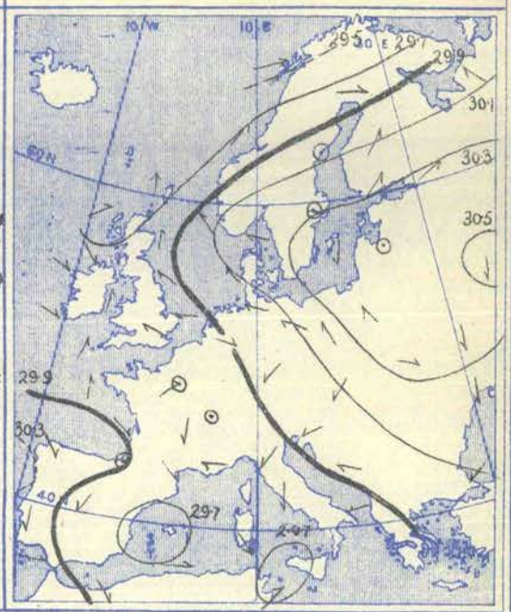
Weather in morning fine and bright over the Baltic and the Gulfs of Finland and Bothnia, as well as over the south-east of England and the neighbouring portions of the Continent. Cloudy or dull elsewhere, with rain at Bodö, Brussels, Belfort, and Oporto, and also at some Mediterranean and Irish stations. Slight rain experienced later on our north-west coasts, rather considerable falls in the east of France and in Italy, and as much as 0·8 in. at Algiers.

Temperature fallen quickly in Russia and Finland, risen equally quickly in Norway and Lapland. Morning readings ranging from 68° at Palermo and between 57° and 54° at some other southern stations, to below 40° over the greater part of our area, and to below 20° in Finland and northern Russia. Lowest value, −1° at Archangel and Kuopio. Maxima just exceeding 50° at some of our own stations and 60° in the south of France. Highest readings, 72° at Palermo, Tunis, and Sfax.

Barometer and Wind. 8 a.m.



6 p.m.

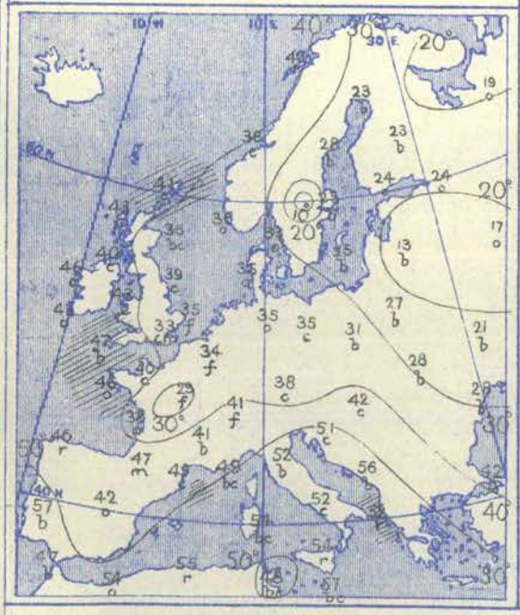


Wind at 8 a.m. Southerly to South-Westerly over the greater part of our Islands and Scandinavia; fresh or strong at some of our western and northern stations, and blowing a fresh or strong gale on the Norwegian coasts. Moderate to fresh cyclonic circulations prevailing over the Mediterranean. Light anticyclonic airs general over the major part of Europe. Wind veering to the North-Westward in Ireland by evening, but not much change elsewhere.

Barometer at 8 a.m. ranging from above 30·4 ins. in an anticyclone centred over the Baltic, to 29·2 ins. and less over central Russia, to below 29·7 ins. in a large but shallow and complex depression lying over the western half of the Mediterranean, and to less than 29·5 ins. over the north-western portion of our area. No general change occurring in the distribution of pressure later, but a shallow "V" shaped depression moving eastwards and finally dispersing over England.

Friday, 18th March, 1904.

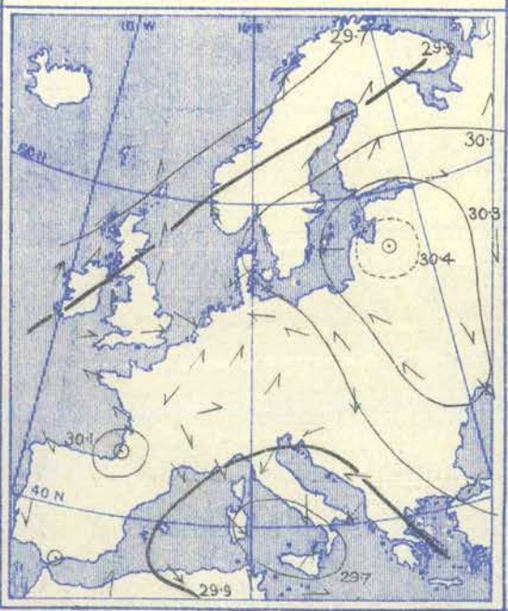
Temperature and Weather. 8 a.m.



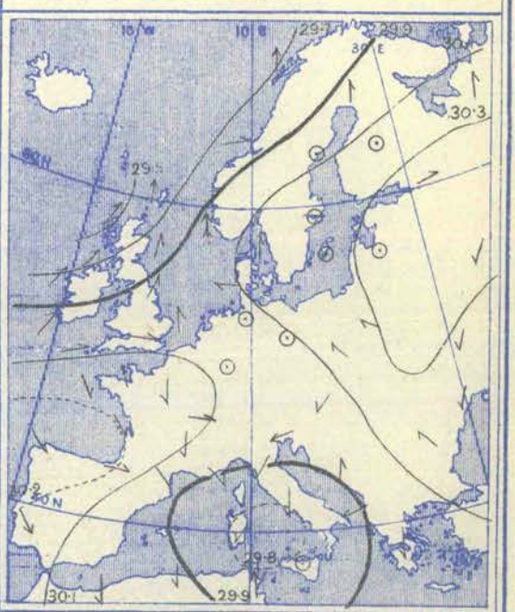
Weather at 8 a.m. fine and bright in Sweden, Finland, the west of Russia, and east of Prussia, as well as in Portugal and at some of our own stations. Cloudy or dull in most other regions, with fog in the centre and south-east of England, and rain at Bodö, in the north of Spain, at Brindisi, Palermo, and Algiers. Rain falling later in the north and west of our Islands and in some parts of southern Europe and Algeria—largest amounts, 0·63 in. at Brindisi, 1·06 ins. at Aumale, and 1·10 ins. at Patras.

Temperature changed but little as a whole; risen quickly in Finland and northern Russia. Readings at 8 a.m. highest, 57° at Malta and Lisbon, 55° in Algeria, and 56° at Lésina. Lowest, (1) 0° at Karlstad, 13° at Riga, 17° at Moscow, and 19° at Archangel, (2) 29° at Paris, (3) 30° at Nottingham, (4) 42° at Madrid. Rising to 50° or above later in many parts of the United Kingdom, to 63° at Nice and at several other southern stations, and to 70° at Tunis and Sfax.

Barometer and Wind. 8 a.m.



6 p.m.

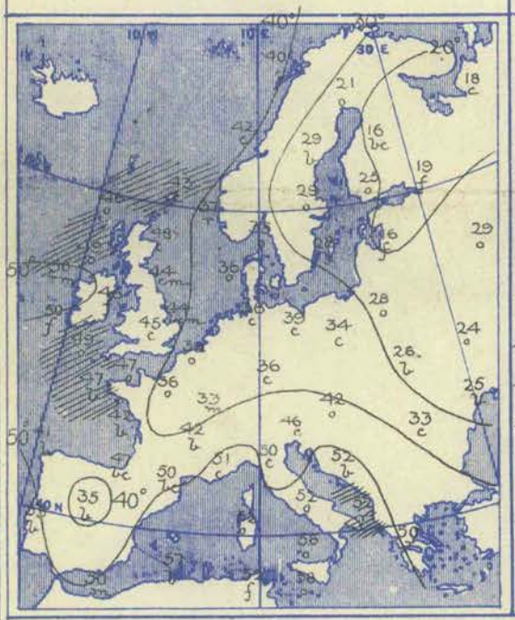


Wind at 8 a.m. light to moderate or fresh in force; anticyclonic in most regions, but cyclonic over the Mediterranean and Southerly or South-Westerly in the north-western part of our area. Increasing to a slight gale from South-West later on our extreme north-west coasts, and to a fresh Southerly gale on the south-west coast of Norway.

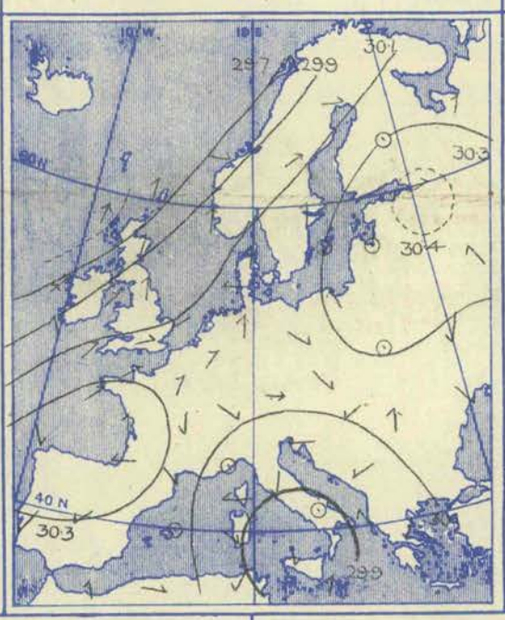
Barometer at 8 a.m. ranging from above 30·4 ins. in an anticyclone centred near Riga, and from 30·0 ins. to above 30·1 ins. in a similar system over France and Spain, to 29·7 ins. and less (1) in a depression over the Mediterranean, and (2) in a large disturbance in the far north-west. Russian anticyclone decreasing somewhat in intensity later, but that in the south-west of Europe increasing and extending north-eastwards. Barometer falling on our north-west coasts, and gradients in that region becoming steeper.

Saturday, 19th March, 1904.

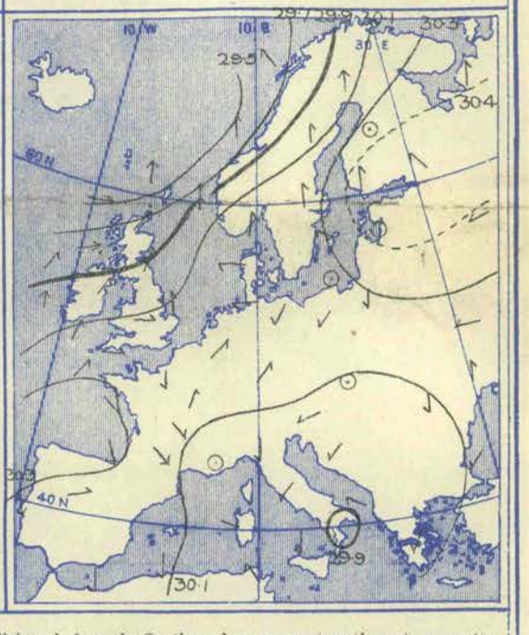
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine over the Spanish Peninsula and France, but cloudy or overcast in most other parts of our area. Rainy in the north of Ireland, at Skudesnaes, Brindisi, and Patras. Rain falling later in nearly all British localities and at some in the extreme south, and snow in various parts of Russia and Norway. Largest quantities measured, 0·39 in. at Riga, 0·43 in. at Patras, and 0·6 in. at La Calle.

Temperature risen in most parts of our area. Readings in morning highest, 58° at Malta and Palermo, and about 50° in Ireland. Lowest, (1) 16° at Kuopio and Riga, 18° at Archangel, and 19° at St. Petersburg, (2) 25° on the northern shores of the Black Sea, (3) 31° at Limoges, (4) 35° at Madrid. Rising later to 60° at Nairn, to a few degrees higher over southern Europe, and to 72° at Tunis. Maxima continuing below 32° in many of the northern and north-eastern parts of our area, and below 50° in some central districts.

Wind at 8 a.m. strong to a slight gale from the Southward on our most north-western coasts, and moderate or light from South or South-West over north-western Europe generally. Light and anticyclonic over the major portion of our area, but a slight cyclonic circulation prevailing over the Mediterranean. Wind veering towards West on our north-west coasts later, and continuing to blow strongly and increasing to a fresh gale from South on the south-west coast of Norway. Little change elsewhere.

Barometer at 8 a.m. highest, 30·4 ins. and upwards in an anticyclone centred near St. Petersburg, and above 30·3 ins. in another system having its centre in the south-western part of our area. Lowest, 29·9 ins. and less in a large shallow depression over the central portion of the Mediterranean, and below 29·6 ins. in a deeper disturbance off our north-west coasts. Depression moving eastwards later, and gradients growing much steeper in Scotland and Scandinavia. Russian anticyclone increasing somewhat in intensity.

IV.—GENERAL NOTES, etc.

The general distribution of pressure was subject to several changes during the period, but after the middle of the week it became highest in an anticyclone over Russia, or its immediate neighbourhood, and the low pressure systems were confined to the north-western and extreme southern parts of our area. The depressions observed in the latter district were of little importance as regards depth and caused no serious increase in the force of the circulating wind current, but those in the north-west were mostly of considerable size and depth, and although their centres remained some distance outside our coasts, they sometimes caused the Southerly and South-Westerly winds to blow freshly or strongly, and on two or three occasions a slight gale was experienced at outlying stations both on our own and the Norwegian coasts. Temperature changed frequently, and the difference from day to day was often large. There was a tendency, however, for the readings in the south to become rather higher than of late and for the frost in northern and eastern Europe to become less severe. Little precipitation occurred over our area as a whole, but in the immediate neighbourhood of the depressions measurements were made almost daily. Over our Islands they were almost always slight, but in the Mediterranean region they were heavier, especially over Algeria.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶⟶ = a heavy gale; ⟶⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from Observations made at 8 a.m. in the British Islands, Belgium, Holland and Spain; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; and at 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands, Belgium and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway, and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 62.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	24·4	+ 0·2	30	0
STRATHPEFFER SPA	20·3	+ 0·2	25	0
EDINBURGH	14·4	− 7·1	18	− 9
COCKLE PARK	14·1	—	17	—
NEWCASTLE-ON-TYNE	6·6	—	8	—
YORK	8·4	− 15·6	10	− 19
SKEGNESS	30·7	—	37	—
CROMER	45·4	—	55	—
LOWESTOFT	41·1	—	50	—
DUNMOW	27·3	—	34	—
SHEFFIELD	20·3	—	25	—
WORKSOP	21·1	− 2·1	26	− 3
THURCASTON	25·0	+ 2·0	30	+ 2
MARGATE	28·6	+ 0·3	35	0
BROADSTAIRS	32·2	—	39	—
RAMSGATE	31·8	—	39	—
EASTBOURNE	27·7	− 3·9	34	− 5
BRIGHTON	29·2	− 1·7	36	− 2
WORTHING	33·6	—	41	—
BOGNOR	41·1†	—	50†	—
WESTBOURNE	40·5†	+ 7·9	49†	+ 10
VENTNOR HOSPITAL	31·8	− 2·4	39	− 3
BOURNEMOUTH	31·3	—	38	—
MARLBOROUGH	26·9	+ 2·3	33	+ 3
SOUTHPORT	10·3	—	13	—
RHYL	17·1	—	21	—
ABERDOVEY	12·2†	—	15†	—
TENBY	18·1	− 14·4	22	− 18
TORQUAY	26·4	− 5·9	32	− 7
NEWQUAY	25·6	− 5·8	31	− 7
GUERNSEY	28·9†	− 5·1	35†	− 6

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* } No. 12. TWELFTH WEEK, ENDING SATURDAY MARCH 26TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 68.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	54	23	47·1	34·9	40·8	1 above	14	+ 1	27	− 2	61	− 36	383	− 36
	1. SCOTLAND, EAST	58	25	47·3	34·4	40·7	1 above	15	− 3	29	− 2	50	− 78	480	+ 12
	2. ENGLAND, N.E.	59	29	48·1	37·0	42·4	1 above	24	+ 4	14	− 13	73	− 68	378	− 23
	3. ENGLAND, EAST	57	26	48·6	37·7	43·0	1 above	25	− 2	12	− 17	91	− 78	367	− 74
	4. MIDLAND COUNTIES	60	25	48·6	37·0	42·7	1 above	2	− 2	14	− 14	97	− 90	415	− 29
	5. ENGLAND, SOUTH	56	25	48·0	38·0	42·9	0 (average)	23	− 5	11	− 11	121	− 84	325	− 15
Principal Grazing Districts.	6. SCOTLAND, WEST	54	28	47·5	36·5	41·8	0 (average	15	− 4	22	− 1	92	− 49	324	− 12
	7. ENGLAND, N.W.	57	27	46·9	37·1	41·9	1 below	14	− 7	20	− 2	72	− 80	351	+ 21
	8. ENGLAND, S.W.	57	29	48·6	38·6	43·5	0 (average)	25	− 3	10	− 8	197	− 35	240	− 20
	9. IRELAND, NORTH	57	31	49·3	38·8	43·9	1 above	27	+ 3	9	− 10	128	− 71	293	− 1
	10. IRELAND, SOUTH	58	28	51·1	39·7	45·2	1 above	32	+ 2	6	− 8	216	− 61	216	+ 1
	— CHANNEL ISLANDS	55	36	50·6	42·5	46·4	1 above	31	− 2	0	− 7	272	− 40	74	− 36

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 68.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	7	2 less	56	0	11·2	− 1·6	33	+ 9	38	+11	147	− 16	19	− 2
	1. SCOTLAND, EAST	4	4	0 (average)	51	+ 6	6·5	− 0·2	30	+ 4	35	+ 5	148	− 52	19	− 7
	2. ENGLAND, N.E.	4	1	3 less	50	+ 7	5·1	+ 0·3	17	− 9	20	−11	140	− 74	17	− 9
	3. ENGLAND, EAST	3	1	2 less	49	+ 5	5·3	+ 0·6	15	−19	17	−23	180	− 56	22	− 7
	4. MIDLAND COUNTIES	3	1	2 less	55	+14	7·1	+ 1·5	13	−14	15	−17	134	− 57	16	− 7
	5. ENGLAND, SOUTH	3	2	2 less	55	+13	8·5	+ 2·4	22	− 8	25	− 9	184	− 37	22	− 4
Principal Grazing Districts.	6. SCOTLAND, WEST	3	9	1 more	52	+ 3	11·9	− 0·4	30	− 1	35	− 2	136	− 59	17	− 7
	7. ENGLAND, N.W.	2	4	1 less	50	+ 5	8·6	+ 1·4	29	+ 4	34	+ 5	145	− 48	18	− 6
	8. ENGLAND, S.W.	2	1	5 less	56	+ 9	11·2	+ 2·3	30	+ 1	35	+ 1	182	− 59	22	− 7
	9. IRELAND, NORTH	4	5	1 less	60	+ 5	9·2	+ 1·4	25	− 1	29	− 1	152	− 46	19	− 6
	10. IRELAND, SOUTH	2	6	0 (average)	60	+ 9	11·7	+ 1·9	29	− 1	33	− 2	172	− 58	21	− 7
	— CHANNEL ISLANDS	3	1	4 less	60	+ 8	11·8	+ 4·1	41	+ 4	47	+ 5	240	− 38	29	− 5

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather. At the commencement of the week the weather was fair in the south and east, but unsettled in other districts, with occasional rain in the extreme west and north. Later the conditions were reversed, slight rain falling in the southern and eastern parts of the country, while fair, dry weather prevailed in most of the western and northern regions.

Temperature was slightly above the normal in most districts, but only just equal to it in England S. and S.W. and Scotland W., and a degree below it in England N.W. The highest of the maxima occurred during the earlier days of the week, and ranged from 60° in the Midland Counties, 59° in England N.E., and 58° in Ireland S. and Scotland E., to 55° in the Channel Islands, to 54° in Scotland N. and W. The lowest of the minima, which were recorded, as a rule, towards the end of the week, varied from 23° in Scotland N., and 25° in Scotland E., the Midland Counties, and England S., to 31° in Ireland N., and to 36° in the Channel Islands.

Rainfall was less than the mean over the Kingdom generally, but a little more in Scotland W., and just equal to the normal in Scotland E. and Ireland S.

Bright Sunshine was again deficient over the country as a whole, but was in excess of the normal in Scotland N. and E. and in England N.W. and S.W. and the Channel Islands. The percentage of the possible duration ranged from 47 in the Channel Islands and 38 in Scotland N., to 20 in England N.E., 17 in England E., and to 15 in the Midland Counties.

Barometer and Wind. The distribution of pressure during this week underwent frequent modifications. During the earlier half of the time a "V" shaped depression passed eastwards over our Islands, and on Wednesday a rather deep disturbance moved south-eastwards over the North Sea. This was followed by an anticyclone, which appeared over our western districts and spread quickly north-eastwards to Scandinavia, while large depressions, which existed over the Mediterranean and France, began to spread northwards towards our south and south-east coasts. The wind, which had at first varied between South and West or North-West, consequently became North-Easterly or Easterly over the major portion of the Kingdom, and blew freshly or strongly in the south and east of England. At the end of the week pressure was increasing steadily, and the disturbance in the south appeared to be dispersing.

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II.—DATA from which the SUMMARY on page 67 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		1..ches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	47	32	43·4	36·1	39·6	+ 0·7	4	21	3	0·36	- 0·25	*	*	*	*
	Stornoway	49	29	46·9	32·4	39·4	- 0·8	14	35	4	0·66	- 0·08	27·3	+ 0·8	32	+ 1
	Wick	50	34	45·4	37·4	41·3	+ 1·1	10	18	4	0·17	- 0·27	*	*	*	*
	Lairg Ş	53	26	48·5	32·6	40·3	+ 2·1	18	36	3	0·65	- 0·02	*	*	*	*
	Glencarron Ş	50	31	47·9	35·1	41·3	+ 2·2	17	27	4	0·99	- 0·43	*	*	*	*
	Fort Augustus Ş	54	23	49·7	33·4	41·3	+ 0·8	22	34	3	0·79	+ 0·14	34·5	+ 15·0	40	+ 17
	Fort William	51	31	48·1	37·1	42·4	+ 1·2	23	14	3	1·10	- 0·12	34·5	+ 10·4	40	+ 12
1. SCOTLAND, E.	Nairn	52	27	48·6	33·3	40·7	+ 0·3	18	33	3	0·21	- 0·15	*	*	*	*
	Aberdeen	50	32	45·9	37·7	41·7	+ 0·8	11	17	4	0·53	+ 0·03	29·7	+ 0·4	35	0
	Braemar Ş	52	25	45·9	31·8	38·6	+ 1·6	11	37	4	0·49	- 0·06	*	*	*	*
	Ochtertyre Ş	58	27	49·4	33·3	41·1	+ 0·2	21	34	3	0·32	- 0·25	*	*	*	*
	Leith Ş	53	29	48·0	36·1	41·9	- 0·2	17	24	5	0·62	+ 0·33	*	*	*	*
	Marchmont Ş	49	29	46·1	34·1	39·9	+ 0·1	11	29	4	0·46	- 0·07	31·7	+ 6·9	37	+ 7
2. ENGLAND, N.E.	Alnwick Castle	51	29	46·7	37·6	42·0	+ 1·5	13	12	3	0·09	- 0·42	*	*	*	*
	Durham	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Shields	56	37	49·1	34·0	41·3	0·0	20	31	4	0·14	- 0·24	*	*	*	*
	Scarborough M	57	—	48·8	—	—	—	—	—	4	0·05	- 0·35	16·4	—	19	—
	Spurn Head	56	35	47·9	39·1	43·4	+ 1·9	22	8	4	0·07	- 0·19	*	*	*	*
	Lincoln	59	32	48·6	37·2	42·7	+ 0·4	25	13	4	0·10	- 0·22	*	*	*	*
	Fulbeck (Lincolnshire)	—	—	—	—	—	—	—	—	3	0·15	- 0·17	10·7	—	12	—
3. ENGLAND, E.	Hillington M	57	29	48·6	37·1	42·7	+ 0·5	25	14	4	0·21	- 0·15	9·4	- 19·3	11	- 23
	Yarmouth	55	33	47·9	38·6	43·1	+ 1·8	22	10	3	0·12	- 0·26	*	*	*	*
	Geldeston	56	30	49·6	37·7	43·5	+ 1·2	29	12	4	0·16	- 0·18	15·1	- 16·2	18	- 19
	Cambridge	55	26	49·5	34·1	41·6	- 1·0	21	32	3	0·08	- 0·23	8·3	- 22·1	10	- 26
	Felixstowe	53	33	48·3	38·8	43·4	+ 1·0	23	9	3	0·10	—	23·4†	—	27†	—
	Clacton-on-Sea	52	32	48·3	38·6	43·3	+ 0·5	23	10	3	0·03	—	25·9	—	30	—
	Rothamsted	53	30	47·5	37·5	42·4	+ 0·5	22	13	5	0·13	- 0·25	9·6	- 19·4	11	- 23
	Shoeburyness	52	34	49·1	38·9	43·9	+ 1·0	26	9	2	0·05	- 0·22	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	56	32	47·2	36·6	41·7	+ 1·3	15	21	4	0·11	- 0·37	19·7	—	23	—
	Bawtry (Hesley Hall)	60	—	49·3	—	—	—	—	—	3	0·09	- 0·26	*	*	*	*
	Nottingham	59	32	49·0	38·6	43·7	+ 1·3	26	10	5	0·12	- 0·22	8·5	—	10	—
	Colly Weston (Stamford)	60	32	49·0	37·7	43·2	+ 0·8	26	12	2	0·36	+ 0·02	*	*	*	*
	Cheadle M	58	32	47·6	36·0	41·6	+ 0·4	16	24	4	0·18	- 0·28	*	*	*	*
	Birmingham (Edgbaston)	57	33	47·8	37·5	42·5	+ 0·9	22	13	3	0·15	- 0·21	16·9	—	20	—
	Shrewsbury	59	32	49·5	36·9	43·0	+ 0·6	28	14	4	0·15	—	*	*	*	*
	Hereford M	57	31	49·9	36·9	43·2	+ 0·4	30	14	2	0·09	- 0·26	*	*	*	*
	Cirencester	54	25	49·6	35·4	42·3	+ 0·8	30	18	2	0·07	- 0·35	20·7	- 8·3	24	- 10
	Oxford	55	32	48·1	37·6	42·7	- 0·3	23	12	2	0·04	- 0·29	11·3	- 17·2	13	- 20
5. ENGLAND, S.	London	54	31	49·0	38·7	43·7	+ 0·1	26	9	3	0·12	- 0·21	8·5‡	- 13·1‡	10‡	- 15‡
	Wisley	55	32	47·9	38·3	43·0	- 0·6	23	10	4	0·19	—	12·8	—	15	—
	Swarraton (Alresford) M	52	25	47·5	36·9	42·0	+ 0·4	15	14	3	0·08	- 0·37	*	*	*	*
	Tunbridge Wells M	52	31	47·6	36·9	42·1	+ 0·1	22	14	3	0·10	—	20·0	—	23	—
	Dungeness	50	34	47·6	38·9	43·1	+ 0·7	21	9	3	0·10	- 0·23	22·6	—	26	—
	Hastings (St. Leonards)	50	36	46·7	39·0	42·7	- 0·2	18	8	5	0·15	- 0·29	29·6	- 4·4	34	- 5
	Southampton	56	32	51·3	38·5	44·7	+ 0·4	34	10	1	0·03	- 0·41	23·0	- 8·5	27	- 10
	Portland Bill	54	33	48·1	38·4	43·1	- 1·5	23	10	1	0·02	—	*	*	*	*
	Shaftesbury M	51	31	46·2	36·6	41·3	- 0·5	12	21	3	0·12	- 0·35	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	54	32	49·6	37·7	43·5	+ 1·3	29	12	3	0·90	- 0·36	*	*	*	*
	Glasgow	50	32	46·1	36·9	41·4	+ 0·2	11	20	3	0·63	+ 0·11	19·6	- 2·3	23	- 3
	Cally Ş	49	28	47·5	34·7	40·9	- 0·6	15	28	3	0·94	+ 0·23	*	*	*	*
	Aspatria	50	28	47·5	34·9	41·0	- 0·2	15	27	3	0·92	—	37·3	—	43	—
	Douglas (Isle of Man)	51	33	46·7	38·2	42·3	0·0	18	11	3	0·96	+ 0·37	32·6	- 0·5	38	- 1
7. ENGLAND, N.W.	Newton Rigg	48	27	39·1	33·3	36·1	- 4·0	0	41	3	0·40	—	32·7	—	38	—
	Stonyhurst	54	33	46·8	37·2	41·9	+ 0·7	13	19	3	0·65	- 0·07	25·2	- 1·3	29	- 2
	Blackpool M	53	28	48·4	35·9	42·0	+ 0·1	18	17	3	0·41	- 0·03	32·8	+ 6·4	38	+ 7
	Manchester (Prestwich)	57	32	47·4	36·0	41·5	- 0·2	15	23	3	0·39	- 0·15	18·1	—	21	—
	Liverpool Obsy. (Bidston)	54	34	46·9	38·1	42·4	- 0·2	19	11	1	0·10	- 0·26	25·4	—	30	—
	Chester (Hawarden Bridge)	56	33	48·6	38·7	43·5	+ 0·1	24	9	0	0·00	—	*	*	*	*
	Llandudno M	54	35	49·0	38·8	43·8	+ 0·1	26	9	1	0·17	- 0·25	35·4	+ 8·1	41	+ 10
	Holyhead	50	35	46·9	39·7	43·2	- 0·4	18	6	2	0·63	+ 0·16	*	*	*	*
	Bettws-y-Coed	54	29	49·2	36·2	42·5	- 1·3	28	16	3	0·60	—	27·9	—	32	—
8. ENGLAND, S.W.	Pembroke	51	33	47·3	39·3	43·2	- 0·2	20	8	1	0·13	- 0·36	33·7	+ 0·6	39	+ 1
	Clifton	55	34	48·7	38·7	43·6	+ 0·3	25	9	3	0·05	- 0·45	*	*	*	*
	Bath	55	33	49·6	38·0	43·6	+ 0·5	28	11	3	0·04	- 0·40	17·0	—	20	—
	Arlington (N. Devon)	51	30	46·1	36·7	41·3	- 0·3	11	21	4	0·17	- 0·58	*	*	*	*
	Cullompton M	56	29	50·4	37·6	43·8	- 0·4	31	12	2	0·03	- 0·50	27·3	- 3·0	32	- 4
	Falmouth	52	37	48·4	40·8	44·5	- 0·4	23	3	1	0·08	- 0·61	34·4	+ 0·1	40	0
	Plymouth	57	34	50·0	39·1	44·4	- 0·3	29	8	1	0·04	- 0·51	38·2	+ 5·2	44	+ 6
9. IRELAND, N.	Malin Head	52	32	47·4	38·1	42·6	- 0·4	21	11	3	0·13	- 0·33	*	*	*	*
	Edenfel (Omagh)	55	31	49·9	37·4	43·5	+ 2·2	30	13	4	0·65	+ 0·11	*	*	*	*
	Blacksod Point	53	38	49·9	42·4	46·0	+ 1·6	28	0	4	0·18	- 0·57	*	*	*	*
	Markree Castle	55	32	50·7	38·1	44·2	+ 1·7	32	11	4	0·56	- 0·06	26·2	+ 0·2	31	0
	Armagh	57	31	49·8	38·0	43·7	+ 1·7	29	11	3	0·64	+ 0·19	23·6	- 1·9	27	- 2
	Donaghadee	53	35	48·1	38·6	43·2	+ 0·4	23	10	3	0·54	+ 0·12	*	*	*	*
10. IRELAND, S.	Dublin	56	38	50·7	41·4	45·9	+ 1·7	30	2	2	0·15	- 0·28	30·5	+ 0·2	36	0
	Birr Castle	55	29	51·1	38·9	44·8	+ 1·9	33	9	2	0·63	+ 0·13	25·9	- 1·7	30	- 2
	Kilkenny	55	31	50·4	38·7	44·4	+ 0·6	31	9	1	0·58	+ 0·11	*	*	*	*
	Waterford	56	36	51·7	40·7	46·0	+ 2·5	33	4	1	0·68	+ 0·10	*	*	*	*
	Roche's Point	54	35	49·6	41·6	45·5	+ 0·5	26	1	2	0·88	+ 0·18	*	*	*	*
	Valencia	53	31	50·7	39·7	45·0	- 0·9	31	6	3	0·64	- 0·22	29·4	- 2·6	34	- 3
	Killarney	58	29	54·0	38·8	46·2	+ 1·1	43	9	2	0·76	- 0·05	*	*	*	*
	Foynes	55	28	50·7	37·8	44·1	0·0	32	12	1	0·49	- 0·05	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	40	51·7	43·1	47·3	+ 1·0	37	0	1	0·03	- 0·47	42·4	+ 7·9	49	+ 9
	Jersey	51	36	49·4	41·9	45·5	- 0·1	25	0	5	0·09	- 0·39	40·0	+ 2·6	47	+ 3

Stations Marked M are in connection with the Royal Meteorological Society, and those marked Ş with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

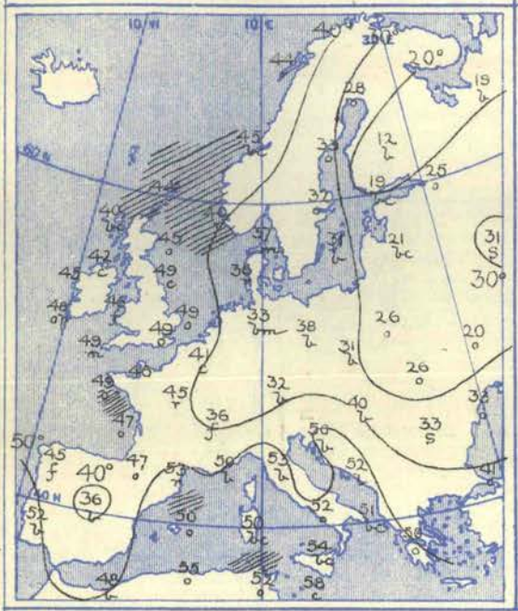
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 20th March, 1904.

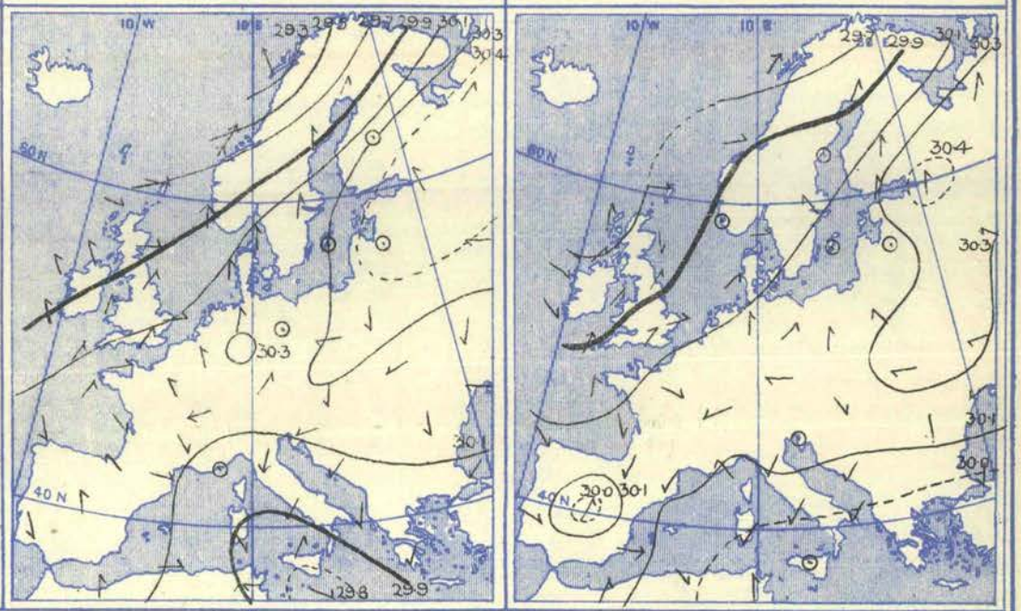
Temperature and Weather. 8 a.m.



Weather at 8 a.m. cloudy or overcast in most western and north-western regions. Rainy at Barcelona, at various French, Danish, and Norwegian stations, and at Parsonstown and Valencia. Sky variable over the eastern half of our area—cloudless in some places and dull in others—and snow falling at Moscow and Hermanstadt. Heavy rain experienced later on our western coasts, and considerable amounts in the north. Rain or snow falling in Russia and Scandinavia, and rain in Algeria.

Temperature changed irregularly. Morning readings highest, 58° at Malta, 55° at Algiers, 53° at Florence and Barcelona, and 51° at Bath. Lowest, (1) 10° at Helsingfors, 12° at Kuopio, (2) 20° at Kiev, (3) 36 at Madrid. Maxima during day 56° on the north-east coast of England; above 60° in most southern localities, 70° at Madrid, 72° at Tunis, and 75° at Brindisi. Day temperatures exceeding the freezing point at all Scandinavian and at some Finnish and Russian stations.

Barometer and Wind. 8 a.m. and 6 p.m.

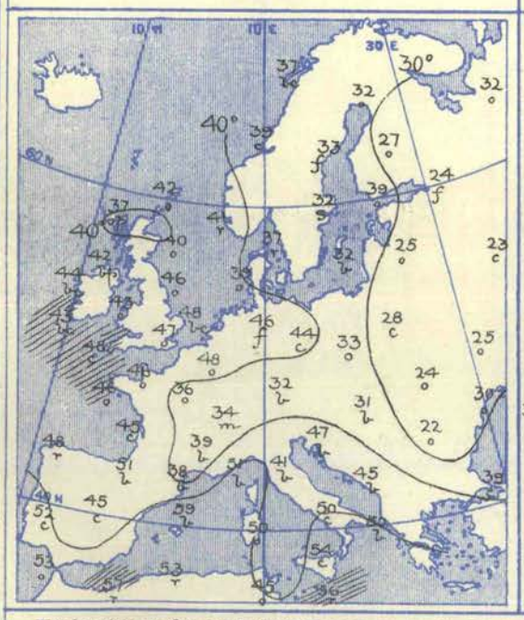


Wind at 8 a.m. Southerly or South-Westerly over all the north-western regions, light or moderate over the United Kingdom, but strong to a gale over Scandinavia. Light or moderate Easterly or North-Easterly winds prevailing over the more south-eastern and southern parts of our area. Wind veering to West or North-West in the south of Ireland by evening, and gale in Scandinavia subsiding, but no great change as a whole.

Barometer at 8 a.m. ranging from above 30·4 ins. in an anticyclone centred over the north of Russia and extending south-westwards to the Iberian Peninsula to less than 29·8 ins. in a depression near Malta, and to below 29·3 ins. in another system off the north-west of Norway. Barometer rising in the north of Norway and also in the neighbourhood of Malta during day, but falling within the south-westerly extension of the anticyclone. A depression appearing over central Spain, and another over our most western coasts.

Monday, 21st March, 1904.

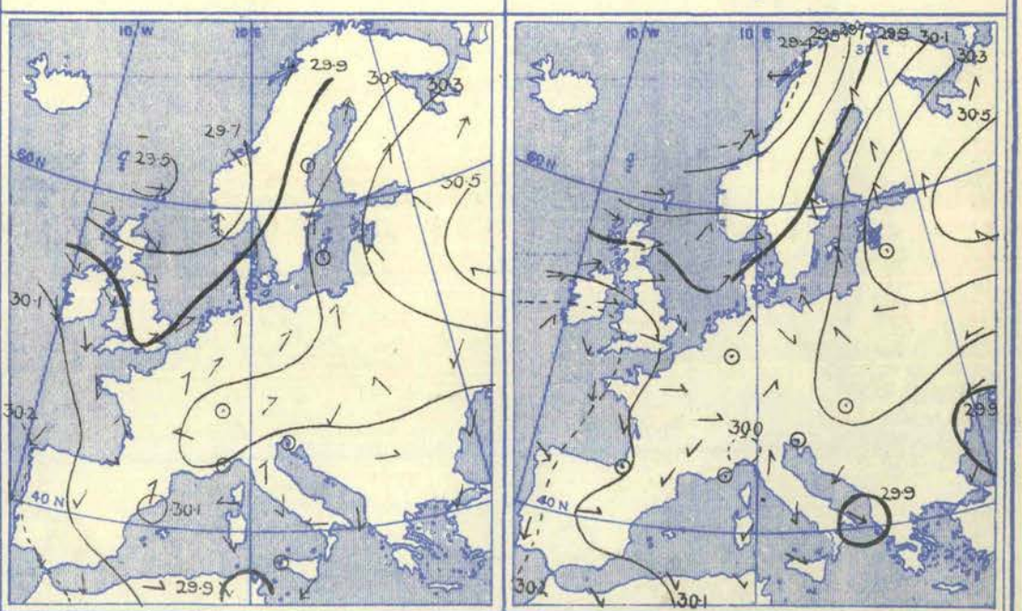
Temperature and Weather. 8 a.m.



Weather at 8 a.m. fine and bright in Ireland, most parts of Italy, and the south-east of France, and in a few other scattered localities, but cloudy or dull over our area generally. Rainy at some English stations, the Skaw and Skudesnaes, and also at Corunna, Malta, and in parts of Algeria, and snow falling at Stockholm and Uleaborg. Heavy snow experienced later in some parts of northern Europe, slight rain in most British localities and heavier falls at a few Spanish and south-western French stations, and in Algeria.

Temperature risen in Finland and Germany, but fallen in most places. Morning readings highest, 59° at Barcelona, 57° at Nemours, 56° at Malta, and 54° at Palermo and Sanguinaires. Lowest, (1) 22° at Hermanstadt, 23° at Moscow, 24° at St. Petersburg, and 25° at Riga, (2) 32° at Faerder, (3) 34° at Limoges and 36° at Paris. Rising later to 57° at Nottingham and in the west of France, to 63° at Nice, Barcelona, and in various parts of Italy, to 68° at Nemours, and to 72° at Tunis.

Barometer and Wind. 8 a.m. and 6 p.m.

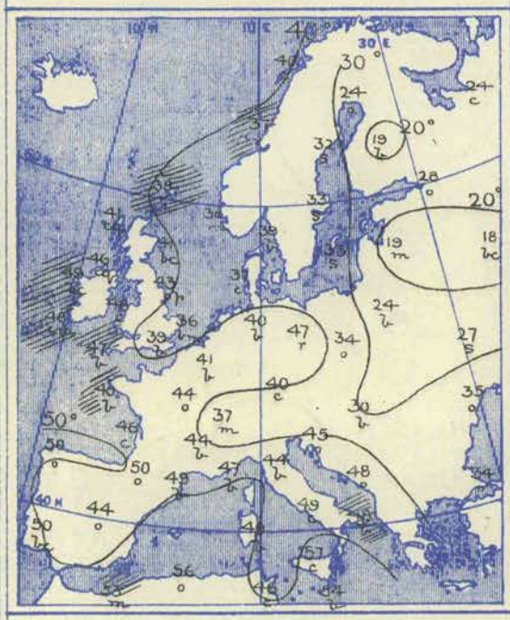


Wind at 8 a.m. moderate or fresh from North or North-West in Ireland and Wales, moderate from South or South-West over the greater part of England, and from West in Scotland. Southerly on the eastern shores of the North Sea, and blowing a fresh gale at Skudesnaes. Light or moderate anticyclonic breezes prevailing over the eastern and southern regions. Wind veering to North-Westward later in day over England and to the South-Westward to the eastward of the North Sea. Gale subsiding at Skudesnaes, but force increasing over Scandinavia generally.

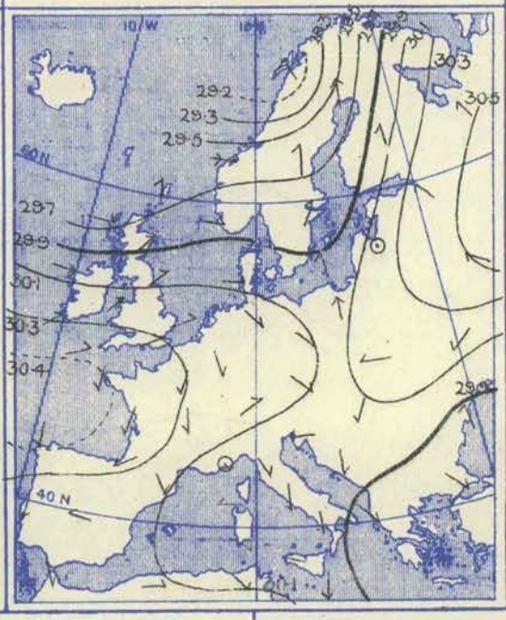
Barometer at 8 a.m. ranging from above 30·5 ins. in an anticyclone centred over central Russia and upwards of 30·2 ins. over Portugal to between 30·0 ins. and 29·5 ins. in a large "V" shaped depression having its minimum to the northward of the Shetlands. Disturbance moving eastwards later, and an anticyclone extending over our Islands from the south-westward. Russian high pressure system maintaining its position, and gradients increasing considerably over Scandinavia.

Tuesday, 22nd March, 1904.

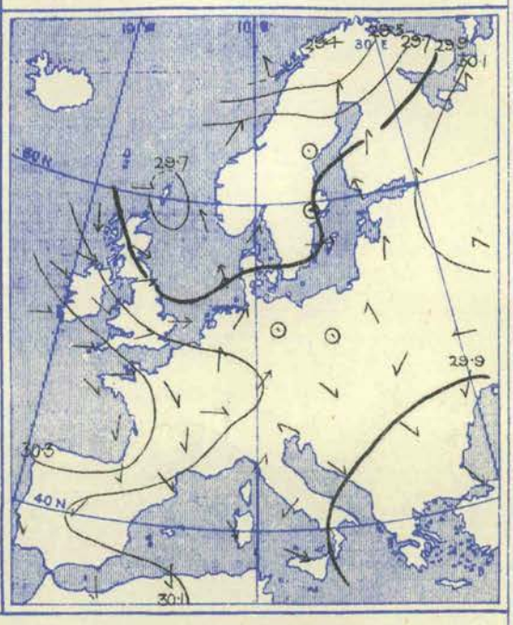
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull in Algeria, Scandinavia, and at many of our own northern stations, with snow in Sweden and rain at Christiansund and in several parts of Scotland. Fine in most other regions, but rainy at Bilbao and in some German localities, and snow falling at Kiev. Rain falling later in the north and north-west of our Islands, Denmark, the Netherlands, Germany, the south of Russia, and at some Italian stations, and snow in Scandinavia.

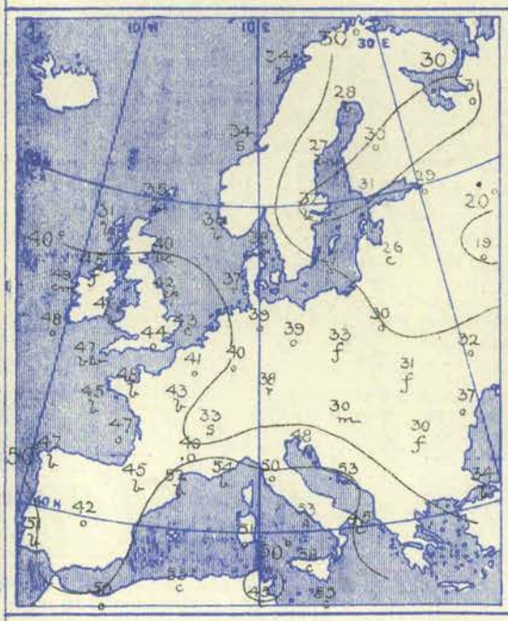
Temperature risen over Germany and Ireland; changed rather irregularly as a whole. Morning values highest, 57° at Palermo and Barcelona, 56° at Algiers, 55° at Sanguinaires, and 54° at Malta. Lowest, (1) 18° at Moscow, 19° at Kuopio, 24° at Archangel, Haparanda, and Warsaw, (2) 37° at Belfort, (3) 38° at Oxford and Bath, (4) 34° at Constantinople. Rising to above 50° during day at almost all our own stations, to above 60° over southern Europe, to 70° at Tunis, and to 75° at Sfax.

Wind at 8 a.m. light and anticyclonic in a large band extending from the Bay of Biscay to northern Russia. Mainly Westerly over the United Kingdom and Norway (strong on our north-west coasts and a gale prevailing at Christiansund), but drawing into South and blowing strongly over the Gulf of Bothnia and Finland, and into South-East at Bodö. Wind increasing to a strong breeze from West or North-West in most parts of our Islands later, and to a fresh gale at Stornoway and Shields; a fresh gale from South experienced in Denmark.

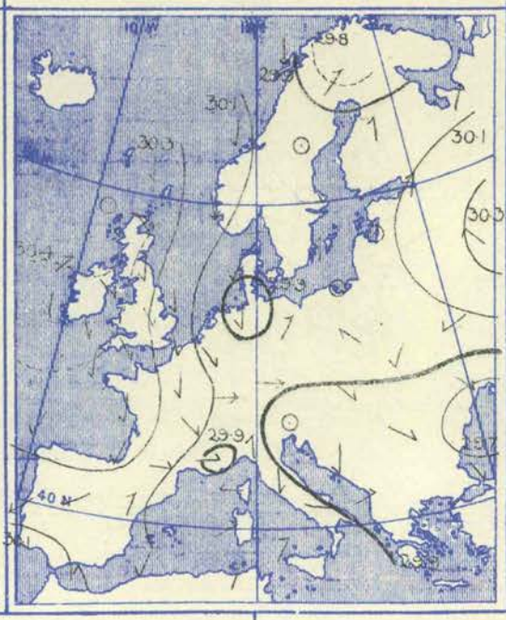
Barometer at 8 a.m. ranging from 30·5 ins. in an anticyclone over central Russia and above 30·4 ins. in another system centred over the Bay of Biscay, to less than 29·9 ins. over the south-east of Europe, to below 29·6 ins. off the north of Scotland, and to less than 29·2 ins. in the north-west of Norway. Russian anticyclone giving way later, but that over the Bay extending northwards. Barometer falling rather quickly on most shores of the North Sea, and gradients becoming rather steep in the north and east of the United Kingdom.

Wednesday, 23rd March, 1904.

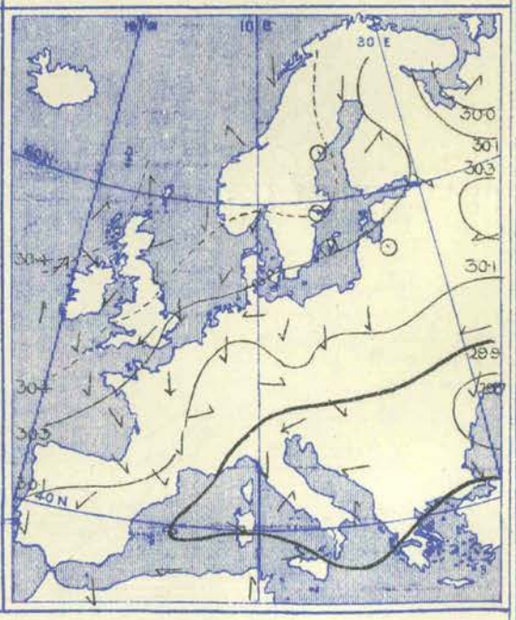
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in many parts of France, Scotland, and Scandinavia, but dull or very cloudy over our area as a whole. Snow falling at Belfort, Christiansund, and Memel, rain at Fanö, Munich, and Nicolaieff, and fog prevailing in various localities in central Europe. A little rain experienced later over Italy, France, Germany, and in the south of Russia, but weather dry generally.

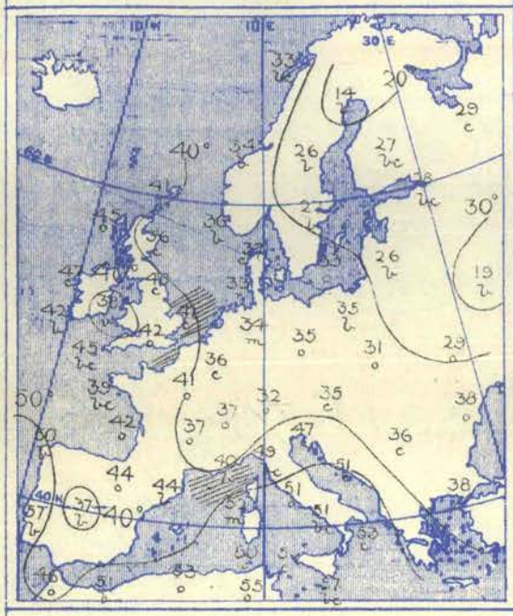
Temperature changed irregularly. Morning values highest, 58° at Palermo, 57° at Barcelona, and 55° at Algiers and Malta. Lowest, (1) 19° at Moscow, 26° at Riga, 27° at Wisby and Hernösand, (2) 30° at Hermanstadt, (3) 31° at Stornoway, (4) 33° at Belfort. Rising during day to 75° at Sfax, 65° at Palermo, 61° at Leghorn and Lisbon, 59° at Nice, to above 50° at some Irish and English stations, and to 45° at Stockholm. Frost in northern and north-eastern Europe becoming less severe—maximum temperatures nearly all above 32°.

Wind in morning light and anticyclonic over our own western districts and central Russia; cyclonic elsewhere. Strong from the Northward on the west coast of Norway and the east coast of England, and from the Westward at Munich; little force elsewhere. Wind increasing to a strong Westerly breeze or moderate gale by evening at Sanguinaires and Cagliari, and blowing strongly from East-North-East at Trieste.

Barometer at 8 a.m. highest, 30·4 ins. and upwards in an anticyclone extending from the Atlantic to Ireland and Wales, and above 30·3 ins. in another area over central Russia. Lowest, 29·7 ins. and less in a depression over the Black Sea, and not much higher in other systems over the Gulf of Genoa, North Germany, and Lapland. Western anticyclone extending quickly to the north of Scandinavia later, and disturbance in that neighbourhood moving away westwards. Barometer falling briskly in the south—a depression appearing over the north of Italy, and that over the Gulf of Genoa increasing in depth.

Thursday, 24th March, 1904.

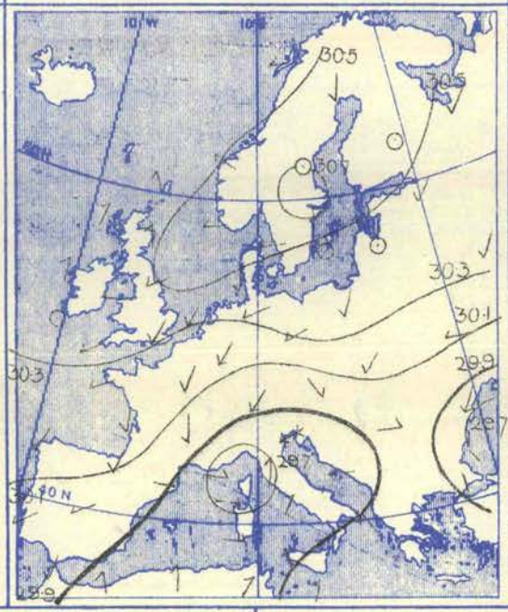
Temperature and Weather. 8 a.m.

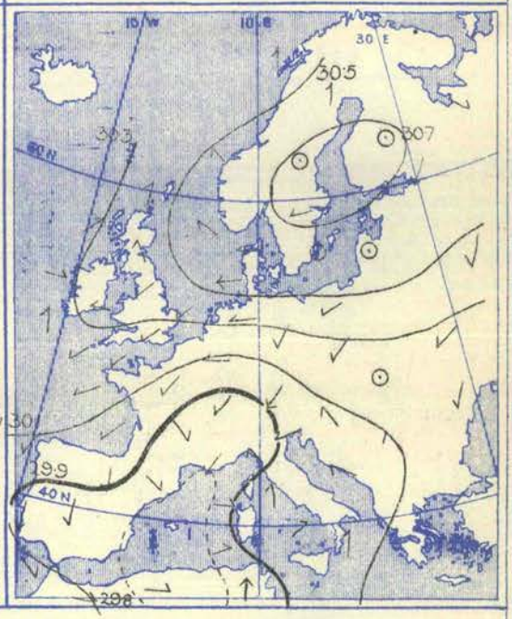


Weather at 8 a.m. fine and bright in most parts of the Scandinavian and Iberian Peninsulas, and in a few scattered places in various parts of Europe, but cloudy or dull as a whole. Snow falling at Archangel, and rain at Nicolaieff, Turin, Limoges, and Le Mans. Considerable quantities of rain falling later over Italy and its vicinity, and very slight amounts in the south of England, but weather dry as a whole.

Temperature fallen in most places. Readings at 8 a.m. highest, 57° at Malta, 56° at Palermo, 55° at Algiers, and 53° at Brindisi. Lowest, (1) 14° at Haparanda, 19° at Moscow, (2) 32° at Munich, 40° at Nice, (3) 35° at Nairn, 39° over central England, (4) 37° at Madrid. Maxima during day ranging from 55° at Parsonstown to 69° at Rome, 66° at Palermo, and to 75° at Sfax. Thermometer remaining below 50° in most parts of our Islands, France, and Germany, and below 32° in the extreme north of Europe.

Barometer and Wind. 8 a.m. and 6 p.m.



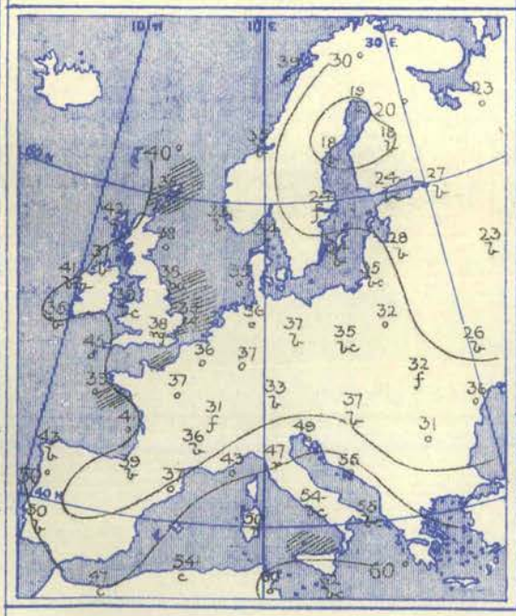


Wind at 8 a.m showing a cyclonic circulation, light to fresh in force, over Italy and its vicinity. Cyclonic elsewhere, light generally, but North-East winds fresh or strong on our own east coasts and in the north of France. Little change occurring later, but some increase in force taking place in parts of southern Europe.

Barometer at 8 a.m. ranging from above 30·6 ins. in a large anticyclone centred over Scandinavia to below 29·7 ins. (1) in a depression over the Black Sea, and (2) in another over the Gulf of Genoa. High pressure system increasing in intensity later, but barometer falling over the United Kingdom, the Netherlands, Germany, and the greater part of France. Depressions over the Black Sea and Gulf of Genoa partially dispersing, but latter system apparently also spreading northwards.

Friday, 25th March, 1904.

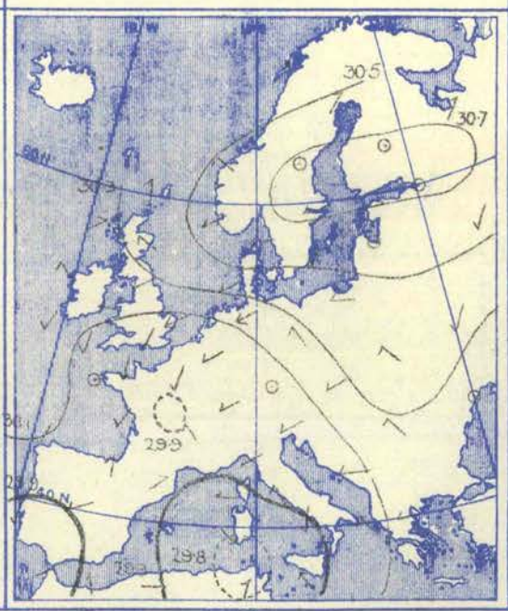
Temperature and Weather. 8 a.m.

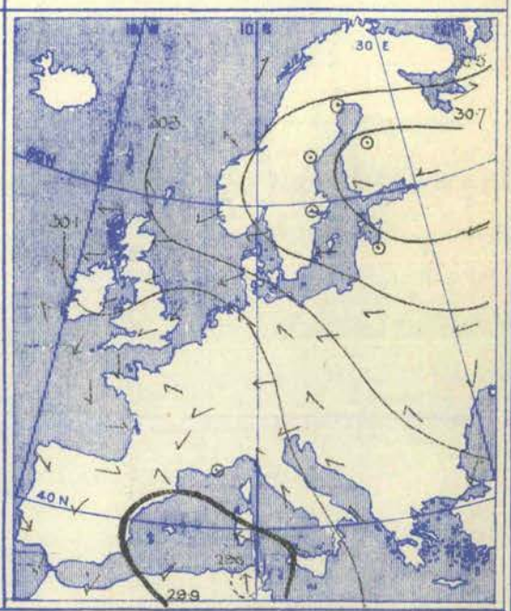


Weather at 8 a.m. fine and bright over northern and some parts of central Europe and also in the Spanish Peninsula; cloudy or overcast in most other regions, but fine in Ireland. Rainy at Cagliari and in the north of Italy, as well as at many English stations. Rather heavy rain falling later in the Riviera and north of Italy, and slight amounts in several parts of Great Britain and the west of France.

Temperature fallen except over the Riviera, Italy, and Tunis. Morning readings highest, 62° at Malta, 55° at Sanguinaires, Lésina, and Brindisi, and 53° at Barcelona. Lowest, (1) 18° at Hernösand and Kuopio, and 23° at Archangel and Moscow, (2) 31° at Belfort, (3) 31° at Madrid. Maxima during day below 50° over our Islands and the north of France, but several degrees higher in southern and central Europe. Highest values, 72° at Brindisi and Palermo, and 77° at Sfax.

Barometer and Wind. 8 a.m. and 6 p.m.



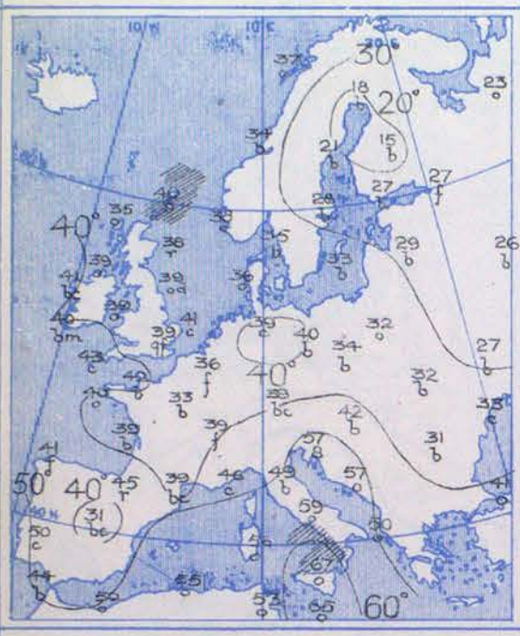


Wind in morning anticyclonic in the northern parts of our area and cyclonic in the more southern and south-western regions. North-Easterly current fresh or strong over Denmark, the Netherlands, England, and the Channel. Very little change taking place later.

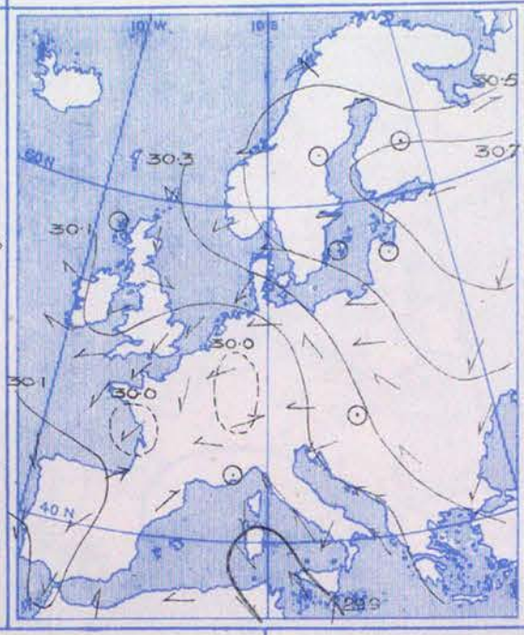
Barometer at 8 a.m. ranging from above 30·7 ins. in a large high pressure system having its centre over the north of Europe to below 29·9 ins. in an ill-defined system lying over the southern half of the Iberian Peninsula, and to 29·8 ins. and less in another disturbance over the central part of the Mediterranean. Scarcely any change occurring in the general distribution of pressure during day, but the barometer falling slowly in the south-western and western countries.

Saturday, 26th March, 1904.

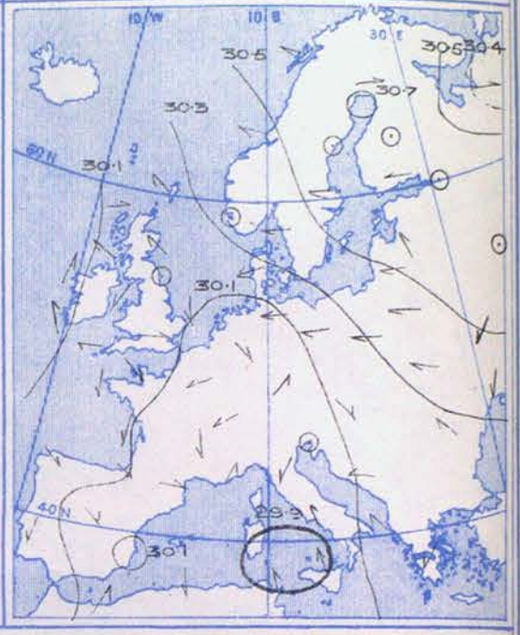
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather at 8 a.m. fine and bright in most parts of Scandinavia, Russia, and central Europe; cloudy or dull in most other places, with rain or sleet on our north-east coasts and at Nottingham and Biarritz, and fog at Brussels and in London. Rather heavy rain later in Italy and the south-west of France, and slight falls at a few Irish and English stations.

Temperature in morning highest, 67° at Palermo, 57° at Trieste and Lésina, and 55° at Algiers, Leghorn, and Pesaro. Lowest, (1) 15° at Kuopio, 18° at Haparanda, 26° at Moscow, and 27° at St. Petersburg, (2) 33° at Paris, 34° at Le Mans, (3) 36° at Oxford, 37° at Nottingham, (4) 31° at Madrid. Rising during day to 77° at Sfax, 74° at Palermo, to above 60° in the Italian and Spanish Peninsulas, and to above 50° in the south of England and the north of France. Maximum as high as 46° at St. Petersburg.

Wind at 8 a.m. light or moderate and anticyclonic in the northern and eastern regions, but Easterly wind strong in Denmark. Light cyclonic circulations shown over the more southern and south-western portion of our area. Scarcely any change occurring later.

Barometer at 8 a.m. ranging from above 30·7 ins. in an extensive anticyclone centred over Finland and northern Russia to below 30·0 ins. in a shallow minimum over the west of Germany, and in another over the west of France, and to below 29·9 ins. in a disturbance over the Mediterranean. French and German depressions partially dispersing by evening, and anticyclone in the north giving way decidedly on its eastern side. No material change taking place in the relative distribution of pressure, but gradients becoming rather less steep in most regions.

IV.—GENERAL NOTES, etc.

During the earlier days of the week the barometer was highest in a large band extending from the north-east of Russia to the Iberian Peninsula, while both to the northward and southward, *i.e.*, over Scandinavia and the Mediterranean, depressions were observed. This condition was greatly modified by Wednesday morning in consequence of the passage south-eastwards of a depression across the North Sea to Germany, the high pressure band being thus divided. On our northern coasts and over Scandinavia in the rear of this depression the barometer rose rapidly and the highest pressure soon became established over the northern half of our area and the main cyclonic disturbances restricted to the Mediterranean and the adjacent countries.

This change in the distribution brought about a North-Easterly and Easterly wind current over the greater part of Europe, but in the extreme north the winds were variable or Westerly. Temperature was somewhat less low than of late over Russia and Scandinavia, but showed little change in other regions. A considerable quantity of rain was experienced over our own western districts at the beginning of the week and heavy falls of rain or snow in Scandinavia, but considered as a whole the weather was dry. Rain was, however, recorded from time to time on the various shores of the Mediterranean and slight falls occurred over our southern and eastern counties and the adjacent portions of the Continent.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶⟶ = a heavy gale; ⟶⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning, and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines indicate rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from Observations made at 8 a.m. in the British Islands, Belgium, Holland and Spain; at 7 a.m. in Germany, Denmark, Norway, and Sweden; at 6.51 a.m. in France and Algeria; at 6 a.m. in Italy and Austria; at 5.25 a.m. in Greece; at 4.59 a.m. in Russia; and at 9.36 a.m. in Portugal (except at Lisbon, where the hour is 8.36 a.m.).

The Chart for 6 p.m. is prepared from Observations taken at 6 p.m. in the British Islands, Belgium and Spain; 4.0 p.m. in Portugal; 5.25 p.m. in Greece; 5.51 p.m. in France; 6.51 p.m. in Algeria; 6.59 p.m. in Russia; 7 p.m. in Germany, Holland, Denmark, Norway, and Sweden; and 8 p.m. in Austria and Italy. The time indicated in each case is Greenwich time.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 68.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	31·3	+ 4·7	36	+ 6
STRATHPEFFER SPA	36·8	+ 14·4	43	+ 17
EDINBURGH	28·4	+ 5·0	33	+ 6
COCKLE PARK	26·0	—	30	—
NEWCASTLE-ON-TYNE	14·8	—	17	—
YORK	17·2	- 8·7	20	- 10
SKEGNESS	16·4	—	19	—
CROMER	18·6	—	22	—
LOWESTOFT	20·2	—	24	—
DUNMOW	13·1	—	15	—
SHEFFIELD	8·1	—	9	—
WORKSOP	10·1	- 14·9	12	- 17
THURCASTON	8·2	- 16·8	10	- 20
MARGATE	22·7	- 7·7	26	- 9
BROADSTAIRS		—		—
RAMSGATE	25·9	—	30	—
EASTBOURNE	25·6	- 8·0	30	- 9
BRIGHTON	22·8	- 10·4	27	- 12
WORTHING	28·1	—	33	—
BOGNOR	32·7†	—	38†	—
WESTBOURNE	24·7†	- 10·1	29†	- 12
VENTNOR HOSPITAL	31·9	- 4·1	37	-
BOURNEMOUTH	26·2	—	30	—
MARLBOROUGH	19·7	- 7·1	23	- 8
SOUTHPORT	30·4	—	35	—
RHYL	34·6	—	40	—
ABERDOVEY	37·4†	—	44†	—
TENBY	28·1	- 6·9	33	- 8
TORQUAY	36·6	+ 1·9	43	+ 2
NEWQUAY	30·0	- 3·7	35	- 4
GUERNSEY	39·4†	+ 2·7	46†	+ 3

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan' Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32 ABINGDON STREET, WESTMINSTER, S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 13. THIRTEENTH WEEK, ENDING SATURDAY, APRIL 2ND, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 74.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	25	46·1	34·1	39·9	1 below	11	− 6	29	+ 3	72	− 42	411*	− 34
	1. SCOTLAND, EAST	53	23	47·4	32·3	39·6	2 below	15	− 8	36	+ 10	65	− 86	516	+ 22
	2. ENGLAND, N.E.	53	25	48·4	33·9	41·0	1 below	18	− 5	32	+ 10	91	− 73	410	− 13
	3. ENGLAND, EAST	54	27	48·8	34·7	41·6	2 below	19	−12	29	+ 5	110	− 90	396	− 69
	4. MIDLAND COUNTIES	53	27	48·6	34·4	41·3	2 below	18	−14	30	+ 7	115	−104	445	− 22
	5. ENGLAND, SOUTH	55	30	48·5	36·7	42·5	2 below	26	− 7	15	− 2	147	− 91	340	− 17
Principal Grazing Districts.	6. SCOTLAND, WEST	50	25	46·5	34·8	40·5	2 below	13	−11	27	+ 7	105	− 60	351	− 5
	7. ENGLAND, N.W.	54	27	47·9	35·8	41·7	2 below	17	− 8	25	+ 7	89	− 88	376	+ 28
	8. ENGLAND, S.W.	53	29	48·8	37·6	43·0	2 below	25	− 6	12	− 2	221*	− 42	251*	− 23
	9. IRELAND, NORTH	52	30	46·9	35·8	41·2	3 below	14	−14	24	+ 8	142	− 85	317	+ 7
	10. IRELAND, SOUTH	56	31	50·0	38·4	44·0	1 below	29	− 5	10	− 1	245	− 66	226	0
	— CHANNEL ISLANDS	54	33	51·2	39·9	45·4	2 below	33	− 4	6	+ 1	305	− 44	80	− 35

Rainfall.

	DISTRICTS. (See p. 74.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	18	10 more	62	+ 2	13·1*	− 0·5
	1. SCOTLAND, EAST	5	10	5 more	56	+ 7	7·5	+ 0·3
	2. ENGLAND, N.E.	5	4	0 (average)	55	+ 9	5·5	+ 0·3
	3. ENGLAND, EAST	5	8	4 more	54	+ 7	6·1	+ 1·1
	4. MIDLAND COUNTIES	6	6	2 more	61	+17	7·7	+ 1·8
	5. ENGLAND, SOUTH	5	6	2 more	60	+15	9·1	+ 2·5
Principal Grazing Districts.	6. SCOTLAND, WEST	5	23	15 more	57	+ 4	14·2	+ 1·1
	7. ENGLAND, N.W.	5	10	6 more	55	+ 6	9·6	+ 1·9
	8. ENGLAND, S.W.	6	10	4 more	62	+11	12·2	+ 2·8
	9. IRELAND, NORTH	7	15	9 more	67	+ 8	10·7	+ 2·3
	10. IRELAND, SOUTH	7	14	7 more	67	+13	13·1	+ 2·7
	— CHANNEL ISLANDS	7	12	7 more	67	+12	12·9*	+ 4·8

Bright Sunshine.

	DISTRICTS. (See p. 74.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	19	− 8	21	− 9	166	− 24	19	− 3
	1. SCOTLAND, EAST	26	− 2	29	− 3	174	− 54	20	− 6
	2. ENGLAND, N.E.	32	− 1	36	− 1	173*	− 75	19	− 8
	3. ENGLAND, EAST	32	− 1	36	− 1	212	− 57	23	− 6
	4. MIDLAND COUNTIES	30	0	34	0	164	− 57	18	− 6
	5. ENGLAND, SOUTH	27	− 7	31	− 8	211	− 44	23	− 5
Principal Grazing Districts.	6. SCOTLAND, WEST	23	−10	26	−11	159	− 69	18	− 8
	7. ENGLAND, N.W.	27	− 1	30	− 2	172	− 49	19	6
	8. ENGLAND, S.W.	25	−10	28	−11	207	− 69	23	− 8
	9. IRELAND, NORTH	17	−11	19	−13	169	− 57	19	− 6
	10. IRELAND, SOUTH	21	−11	24	−12	193	− 69	21	− 8
	— CHANNEL ISLANDS	31	− 7	35	− 8	271	− 45	29	− 5

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was of an unsettled character throughout the Kingdom. Rain or hail was frequently experienced in most districts, and was sometimes heavy in the west and north, but many intervals of fine bright weather occurred, especially over England. Thunderstorms were reported in most parts of England on Tuesday, and thunder, singly, at some stations on the following day.

Temperature was 3° below the mean in Ireland N. and 1° or 2° below in all other districts. The highest of the maxima were generally recorded on Saturday, and ranged from 56° in Ireland S. and 55° in England S. to 51° in Scotland N. and 50° in Scotland W. The lowest of the minima, which were registered during the earlier days of the week, varied from 23° in Scotland E. and 25° in Scotland N. and W. and England N.E., to 31° in Ireland S., and to 33° in the Channel Islands.

Rainfall was only equal to the mean in England N.E., but in all other districts it was more than the normal, the excess in Ireland, Scotland, the north-west of England, and the Channel Islands being large. In the west and north of Scotland the amount was nearly three times as much as the mean.

Bright Sunshine showed a deficiency in all districts excepting the Midland Counties. The percentage of the possible duration ranged from 36 in England N.E. and E., and 35 in the Channel Islands, to 24 in Ireland S., 21 in Scotland N., and to 19 in Ireland N.

Barometer and Wind. At the commencement of the week a large band of high pressure extended from an anticyclone over northern Europe across our Islands to the Bay of Biscay, while a depression was shown off the west of Ireland. This disturbance continued to spread eastwards and, the high pressure receding to the Continent, the whole of the United Kingdom soon came under its influence, the accompanying Southerly winds blowing strongly in the west. The system was followed by others, which moved in a general north-north-easterly direction, with their centres outside our western coasts. Some of their secondaries, however, moved eastwards and developed into separate minima over the southern portion of the North Sea. The Southerly to South-Westerly or Westerly winds, which marked the passage of the primary systems, only rarely reached the force of a gale even in the west, but at the end of the period a strong to whole gale was experienced in the north of Ireland, and moderate to fresh gales over the country generally.

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II.—DATA from which the SUMMARY on page 73 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	45	35	43·9	37·9	40·8	+ 1·1	5	15	6	1·50	+ 0·94	*	*	*	*
	Stornoway	48	29	45·6	34·1	39·7	- 1·5	10	29	7	1·92	+ 1·24	18·9	- 10·7	21	- 12
	Wick	50	27	46·6	34·4	40·3	- 0·8	13	28	6	0·49	+ 0·06	*	*	*	*
	Lairg 𝔖	50	26	47·8	30·8	39·1	- 0·2	16	42	4	0·57	- 0·08	*	*	*	*
	Glencarron 𝔖	51	26	46·5	33·1	39·6	- 0·5	13	33	6	2·18	+ 0·86	*	*	*	*
	Fort Augustus 𝔖	48	25	46·3	33·1	39·5	- 2·2	12	33	5	1·97	+ 1·37	19·1	- 2·6	21	- 3
	Fort William	51	30	46·0	35·5	40·6	- 1·7	11	25	6	3·60	+ 2·52	13·8	- 12·8	15	- 14
1. SCOTLAND, E.	Nairn	53	27	50·3	32·4	41·1	- 0·5	23	38	3	0·28	- 0·07	*	*	*	*
	Aberdeen	50	30	47·0	35·6	41·1	- 0·8	14	25	4	1·34	+ 0·85	27·8	- 3·3	31	- 4
	Braemar 𝔖	45	23	43·3	28·8	35·8	- 2·4	4	45	4	1·08	+ 0·54	*	*	*	*
	Ochtertyre 𝔖	51	27	47·3	31·9	39·4	- 2·6	15	38	7	1·91	+ 1·36	*	*	*	*
	Leith	52	28	49·3	33·7	41·3	- 1·6	20	33	6	0·41	+ 0·09	*	*	*	*
	Marchmont 𝔖	49	28	46·9	31·3	38·9	- 1·9	14	39	5	0·71	+ 0·17	27·7	- 0·2	31	0
2. ENGLAND, N.E.	Alnwick Castle	51	26	48·1	31·9	39·8	- 1·5	17	38	5	0·50	0·00	*	*	*	*
	Durham	50	25	47·6	31·4	39·3	- 2·4	16	40	4	0·26	- 0·18	31·2	+ 3·7	35	+ 4
	Shields	51	30	48·3	34·3	41·1	- 1·1	18	30	5	0·20	- 0·18	*	*	*	*
	Scarborough 𝔐	51	33	49·1	35·3	42·0	- 0·6	20	19	5	0·44	+ 0·04	36·1	—	41	—
	Spurn Head	50	35	47·7	37·0	42·2	- 0·3	22	14	6	0·45	+ 0·18	*	*	*	*
	Lincoln	53	27	49·6	33·5	41·3	- 2·2	21	33	6	0·51	+ 0·16	*	*	*	*
	Fulbeck (Lincolnshire)	—	—	—	—	—	—	—	—	5	0·45	+ 0·11	37·2	—	42	—
3. ENGLAND, E.	Hillington 𝔐	53	29	50·0	33·6	41·6	- 1·7	22	34	6	1·40	+ 1·03	33·3	+ 2·6	37	+ 3
	Yarmouth	52	31	47·3	34·6	40·8	- 1·5	15	29	6	0·71	+ 0·32	*	*	*	*
	Geldeston	54	27	50·5	33·9	42·0	- 1·4	24	23	4	0·67	+ 0·32	31·9	- 1·3	36	- 2
	Cambridge	54	27	49·3	32·2	40·5	- 3·5	20	38	6	0·90	+ 0·57	24·4	- 7·9	27	- 9
	Felixstowe	52	34	47·4	36·8	41·9	- 1·7	15	21	5	0·73	—	30·7†	—	35†	—
	Clacton-on-Sea	52	33	47·9	36·0	41·8	- 2·2	17	24	6	0·49	—	35·1†	—	39†	—
	Rothamsted	52	29	48·7	34·0	41·1	- 1·9	19	31	5	0·77	+ 0·36	32·0	+ 1·3	36	+ 1
	Shoeburyness	53	34	49·1	36·7	42·7	- 1·4	27	15	4	0·51	+ 0·23	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	50	29	48·0	33·7	40·6	- 0·8	17	32	5	0·78	+ 0·30	32·2	—	36	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	51	31	48·9	34·6	41·5	- 1·9	19	29	6	0·39	+ 0·05	34·7	—	39	—
	Colly Weston (Stamford)	53	31	49·6	33·9	41·5	- 2·0	21	32	6	0·60	+ 0·26	*	*	*	*
	Cheadle 𝔐	48	30	46·0	33·3	39·5	- 2·7	11	32	6	0·87	+ 0·41	*	*	*	*
	Birmingham (Edgbaston)	49	31	47·2	35·0	40·9	- 1·9	15	27	5	0·52	+ 0·15	25·4	—	29	—
	Shrewsbury	52	27	49·8	34·1	41·7	- 1·6	22	31	7	0·52	—	*	*	*	*
	Hereford 𝔐	52	27	49·6	34·7	41·9	- 2·0	21	29	6	0·56	+ 0·20	*	*	*	*
	Cirencester	52	30	48·9	33·7	41·1	- 1·3	19	32	6	0·68	+ 0·26	28·5	- 2·7	32	- 3
	Oxford	52	32	49·7	36·4	42·9	- 1·4	30	16	6	0·38	+ 0·03	23·1	- 7·3	26	- 8
5. ENGLAND, S.	London	55	32	51·0	36·6	43·6	- 1·2	34	15	5	0·60	+ 0·25	24·5‡	+ 0·5‡	28‡	+ 1‡
	Wisley	53	33	49·4	36·3	42·7	- 2·1	29	16	6	0·49	—	31·2	—	35	—
	Swarraton (Alresford) 𝔐	52	30	48·7	35·7	42·0	- 0·6	19	18	5	0·64	+ 0·19	*	*	*	*
	Tunbridge Wells 𝔐	51	32	47·5	34·7	40·9	- 2·5	15	28	5	1·00	—	29·3	—	33	—
	Dungeness	50	33	47·3	36·9	42·0	- 1·5	15	14	5	0·34	+ 0·02	32·2	—	36	—
	Hastings (St. Leonards)	50	33	46·6	37·2	41·8	- 2·3	13	19	6	0·59	+ 0·15	27·2	- 8·5	31	- 10
	Southampton	53	34	50·8	37·7	44·1	- 1·3	33	12	6	0·86	+ 0·42	24·8	- 9·4	28	- 10
	Portland Bill	50	36	47·9	39·4	43·5	- 2·2	21	7	5	0·53	—	*	*	*	*
	Shaftesbury 𝔐	50	31	47·5	35·8	41·5	- 1·7	15	25	5	0·60	+ 0·10	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	50	30	47·3	35·3	41·1	- 2·2	15	26	6	5·75	+ 4·60	*	*	*	*
	Glasgow	48	30	45·1	34·7	39·8	- 2·4	9	27	4	1·13	+ 0·62	14·1	- 10·2	16	- 12
	Cally 𝔖	50	25	47·5	33·6	40·3	- 2·3	15	32	6	1·55	+ 0·87	*	*	*	*
	Aspatria	49	30	46·7	34·6	40·5	- 1·8	13	28	5	1·72	—	29·3	—	33	—
	Douglas (Isle of Man)	48	28	46·1	35·7	40·8	- 2·5	11	24	6	1·18	+ 0·60	26·7	- 9·0	30	- 10
7. ENGLAND, N.W.	Newton Rigg	—	27	—	31·6	—	—	—	—	5	1·61	—	27·9	—	31	—
	Stonyhurst	48	31	45·4	34·7	39·9	- 2·5	10	27	6	1·27	+ 0·61	23·4	- 5·3	26	- 6
	Blackpool 𝔐	49	28	47·6	33·7	40·4	- 2·8	16	31	5	1·20	+ 0·77	33·0	+ 4·0	37	+ 5
	Manchester (Prestwich)	50	31	46·9	34·1	40·3	- 2·8	14	30	6	1·09	+ 0·59	20·3	—	23	—
	Liverpool Obsy. (Bidston)	52	33	48·3	36·9	42·4	- 1·5	24	14	7	0·67	+ 0·30	29·2	—	33	—
	Chester (Hawarden Bridge)	54	33	49·1	37·4	43·1	- 1·6	27	13	2	0·24	—	*	*	*	*
	Llandudno 𝔐	54	32	49·6	37·3	43·3	- 1·5	29	13	6	0·65	+ 0·25	26·9	- 2·8	30	- 3
	Holyhead	49	34	47·4	37·6	42·4	- 2·2	21	12	5	0·82	+ 0·35	*	*	*	*
	Bettws-y-Coed	53	27	48·6	34·8	41·5	- 3·3	18	28	7	1·81	—	23·0	—	26	—
8. ENGLAND, S.W.	Pembroke	49	38	47·1	40·3	43·6	- 0·7	18	5	5	0·58	+ 0·11	21·8	- 13·8	25	- 16
	Clifton	52	33	49·0	38·1	43·4	- 0·9	26	11	5	0·89	+ 0·39	*	*	*	*
	Bath	52	34	49·4	37·1	43·1	- 1·2	28	14	5	0·70	+ 0·25	20·1	—	23	—
	Arlington (N. Devon)	49	29	47·3	34·7	40·8	- 1·9	15	28	7	1·28	+ 0·55	*	*	*	*
	Cullompton 𝔐	53	32	50·4	36·2	43·1	- 2·1	32	16	7	0·83	+ 0·29	27·0	- 4·9	30	- 6
	Falmouth	51	34	49·3	38·2	43·6	- 2·1	27	11	7	1·37	+ 0·69	25·2	- 11·5	28	- 13
	Plymouth	52	33	49·4	38·4	43·7	- 2·2	27	10	6	1·07	+ 0·53	26·5	- 8·7	30	- 10
9. IRELAND, N.	Malin Head	50	31	45·4	34·7	39·9	- 4·0	10	27	7	1·04	+ 0·59	*	*	*	*
	Edenfel (Omagh)	51	30	45·4	34·3	39·7	- 2·6	10	28	7	1·74	+ 1·20	*	*	*	*
	Blacksod Point	50	33	47·9	38·6	43·1	- 2·2	22	10	7	2·84	+ 2·11	*	*	*	*
	Markree Castle	52	32	47·8	36·6	42·0	- 1·6	16	15	7	1·64	+ 1·04	15·5	- 13·0	17	- 15
	Armagh	52	31	47·7	35·1	41·2	- 1·8	16	27	7	0·98	+ 0·52	18·2	- 9·6	20	- 11
	Donaghadee	50	32	47·0	35·4	41·0	- 2·8	14	25	6	0·58	+ 0·15	*	*	*	*
10. IRELAND, S.	Dublin	56	33	51·4	36·9	43·9	- 1·4	35	14	7	0·60	+ 0·16	27·1	- 5·5	30	- 6
	Birr Castle	55	32	49·0	36·4	42·5	- 1·3	27	16	7	1·61	+ 1·11	18·0	- 11·8	20	- 13
	Kilkenny	53	33	48·9	36·4	42·5	- 2·4	27	16	7	1·13	+ 0·63	*	*	*	*
	Waterford	52	36	50·3	40·3	45·2	+ 0·9	30	5	7	1·18	+ 0·59	*	*	*	*
	Roche's Point	53	34	49·3	39·9	44·5	- 1·5	26	6	7	1·22	+ 0·49	*	*	*	*
	Valencia	54	36	50·3	39·9	45·0	- 1·7	30	6	7	1·73	+ 0·86	18·8	- 15·0	21	- 17
	Killarney	52	33	50·5	38·6	44·4	- 1·4	31	10	5	1·73	+ 0·92	*	*	*	*
	Foynes	56	31	50·4	38·6	44·3	- 0·8	30	10	7	1·65	+ 1·10	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	39	51·4	40·7	45·9	- 1·2	33	4	7	1·35	+ 0·86	22·2	- 14·4	25	- 16
	Jersey	54	33	50·9	39·0	44·8	- 1·9	32	8	6	0·98	+ 0·51	31·8	- 7·8	36	- 9

Stations Marked 𝔐 are in connection with the Royal Meteorological Society, and those marked 𝔖 with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

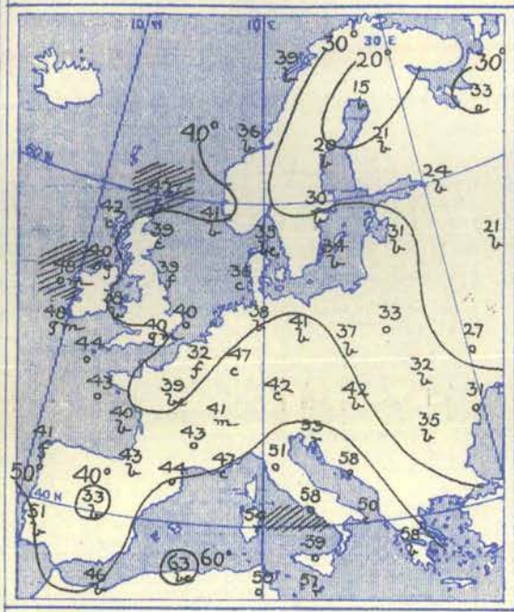
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

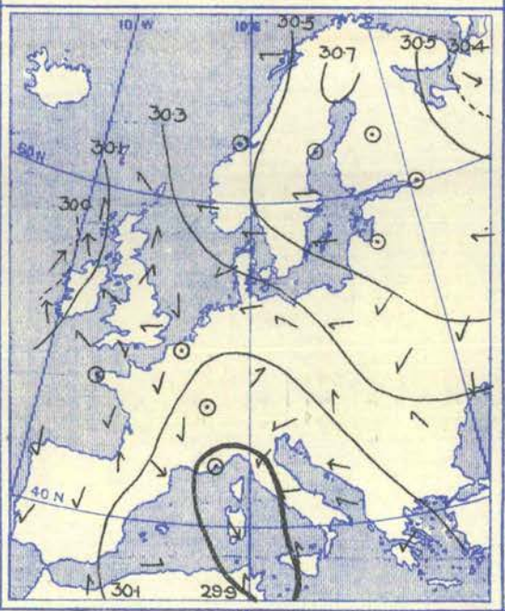
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 27th March, 1904.

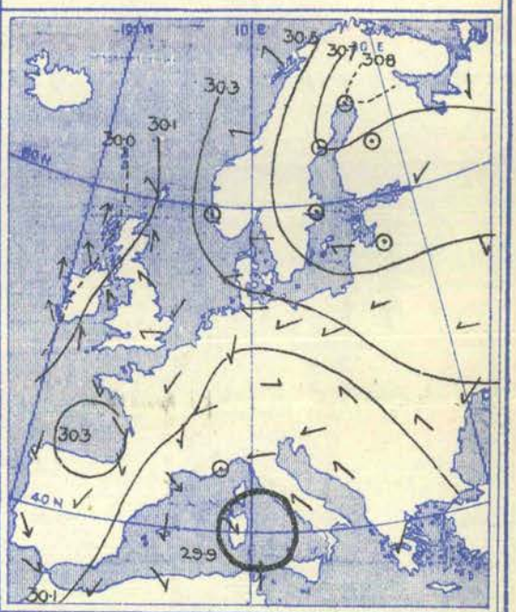
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over the centre and northern half of the Continent, and also over Algeria, the Spanish Peninsula, and at many French stations. Cloudy or overcast in most other regions; rainy at Malta, Cagliari, Turin, and Trieste. Rain falling later on our own northern and western coasts, as well as in Italy and Algeria—largest amounts, 0·71 in. at Turin and Leghorn, and 0·67 in. at Algiers.

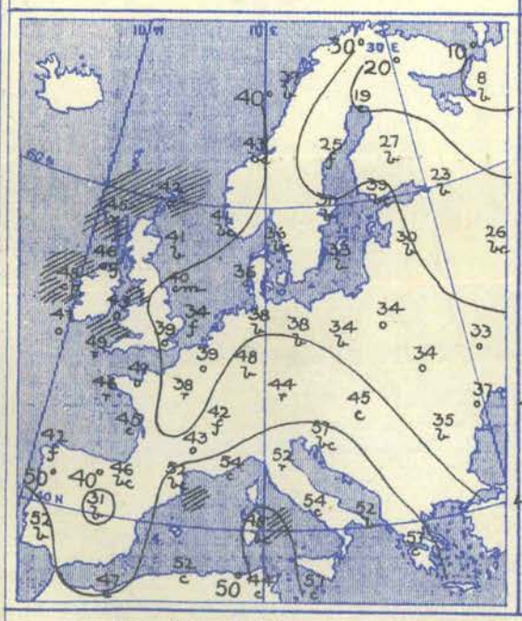
Temperature changed little and irregularly. Readings in morning highest, 63° at Algiers, 59° at Palermo, and 58° at Naples, Rome, and Patras. Lowest, (1) 15° at Haparanda, 20° at Hernösand, 21° at Helsingfors and Moscow, and 24° at St. Petersburg, (2) 32° at Brussels and Limoges, (3) 36° over central England, (4) 33° at Madrid. Rising during day to 53° at Nairn and Scilly, a little higher at some French and German stations, to 64° at Prague, Rome, and Brindisi, 66° at Patras, and to 73° at Sfax. Maxima between 32° and 40° in most parts of eastern and north-eastern Europe.

Wind in morning Southerly along our western coasts—strong in Ireland. Light from East or North-East over the major portion of our area, but a moderate to strong cyclonic circulation prevailing around the Islands of Sardinia, Corsica, and Sicily. An anticyclonic circulation of moderate strength setting in over the Bay of Biscay and its neighbourhood by the evening.

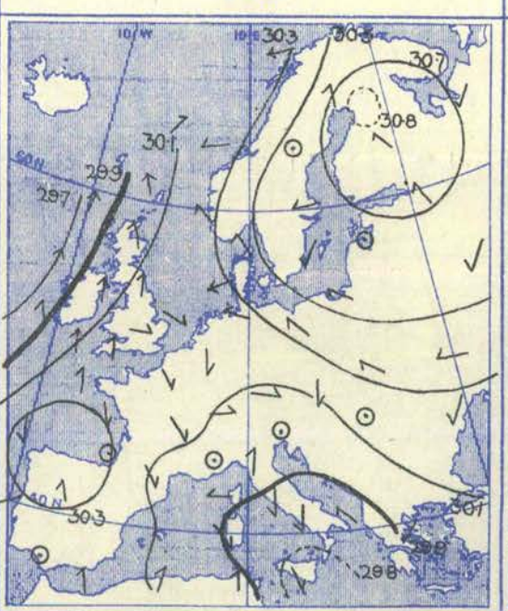
Barometer at 8 a.m. ranging from above 30·6 ins. in a large anticyclone with its central part extending from Moscow to Lapland, and above 30·2 ins. in a band stretching from Norway to beyond the Bay of Biscay, to less than 30·0 ins. in a depression off our western coasts, and to below 29·9 ins. in a large, but not deep, disturbance over the Mediterranean. A separate anticyclone appearing over the Bay of Biscay later, and that over northern Europe becoming much modified in form. Atlantic depression spreading over our north-western and northern districts.

Monday, 28th March, 1904.

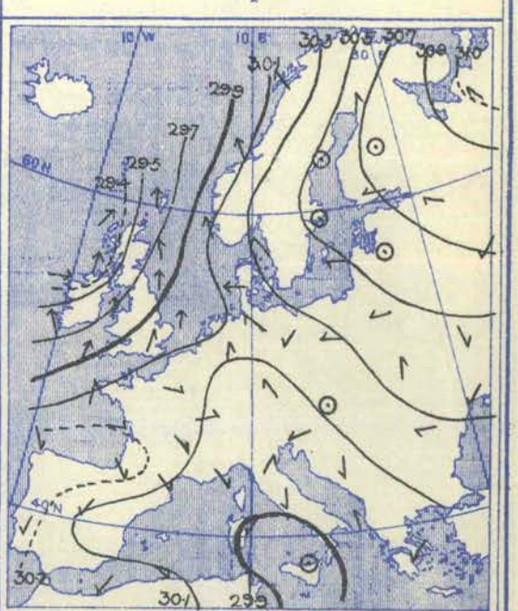
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over the Iberian Peninsula, Germany, and in nearly all parts of northern Europe. Dull or cloudy elsewhere, with rain over our western and northern districts, in Brittany, at Paris, and Munich, as well as at Florence. Fog prevailing at Corunna and in the east coast of England. Rain becoming very general later over our Islands and the north of France, and also in various parts of Italy and the Mediterranean. Largest amount, 0·94 in. at Aberdeen.

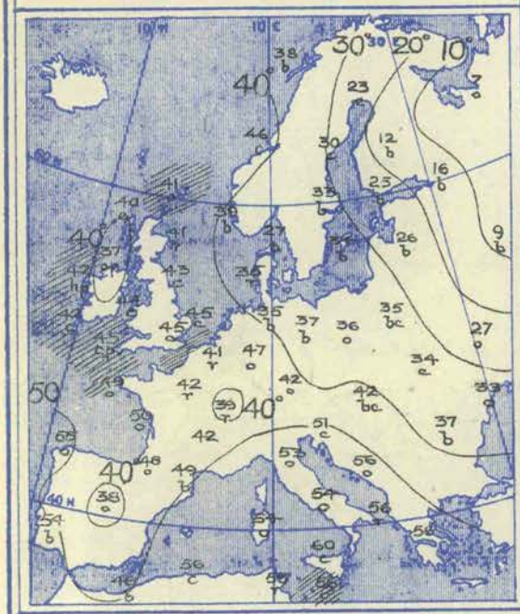
Temperature at 8 a.m. highest, 61° at San Fernando, 57° at Malta, Patras, and Trieste, and 54° in the Riviera. Lowest, (1) 8° at Archangel, 19° at Haparanda, 23° at St. Petersburg and Helsingfors, 26° at Moscow, (2) 31° at Madrid, 32° at Limoges, (3) 39° at Nottingham. Rising during day to 54° in London and at Berlin, 59° at Biarritz, 69° at Perpignan and Brindisi, and to 70° at San Fernando. Maxima below 32° in the north-east of Europe.

Wind at 8 a.m. showing a cyclonic circulation over the Mediterranean, and an extensive anticyclonic circulation over all the more northern parts of the Continent. Southerly winds, fresh to a moderate gale, prevailing over the United Kingdom. Latter current extending eastwards to the west coast of Norway and increasing somewhat in force, but no other change of importance.

Barometer at 8 a.m. ranging from above 30·8 ins. in an anticyclone having its centre over the north of Finland, and above 30·3 in a similar system in the south-west of our area to below 29·8 ins. (1) in a depression of little depth centred near Malta, and (2) in a more important disturbance off our own west coasts. Atlantic disturbance spreading quickly eastwards and north-eastwards during day, northern anticyclone receding in an easterly direction, and that in the south-west giving way somewhat. Mediterranean depression partially dispersing. Gradients increasing considerably over the United Kingdom and Scandinavia.

Tuesday, 29th March, 1904.

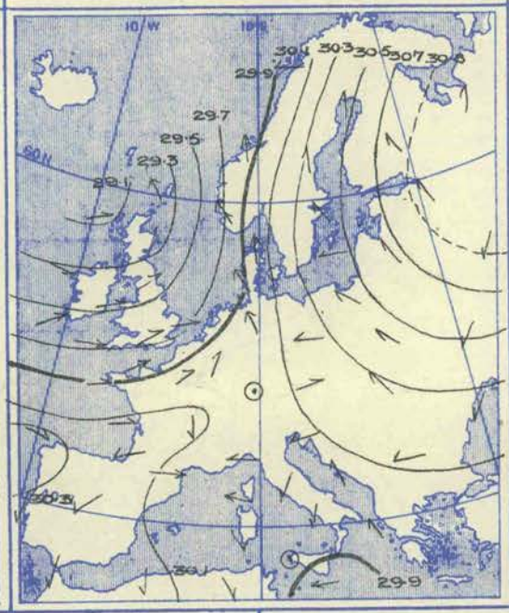
Temperature and Weather. 8 a.m.

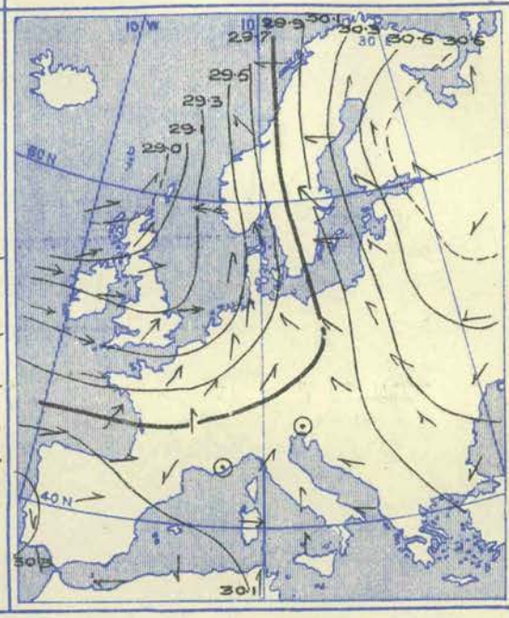


Weather in morning cloudy or overcast as a whole, but fine and bright in many parts of north-eastern Europe and in a few other localities. Rain falling at various stations in the United Kingdom, France, the Netherlands, and Denmark, as well as at Brindisi, Tunis, and La Calle. Rain, sleet, or snow becoming general later on except in central Europe, Russia, and in some Mediterranean regions, and amounts heavy in several places. Thunderstorms occurring at Blacksod Point and in London, thunder only at Spurn Head, and lightning at Scilly.

Temperature at 8 a.m. ranging from 60° at Palermo, and above 50° in the south generally, to below 40° at Madrid and in most parts of central and northern Europe, and below 10° at Moscow and Archangel. Maxima during day 72° at Nemours, 70° at Madrid, 69° at Perpignan, and between 60° and 70° at most southern stations; exceeding 50° over Germany and in different parts of our Islands.

Barometer and Wind. 8 a.m. 6 p.m.



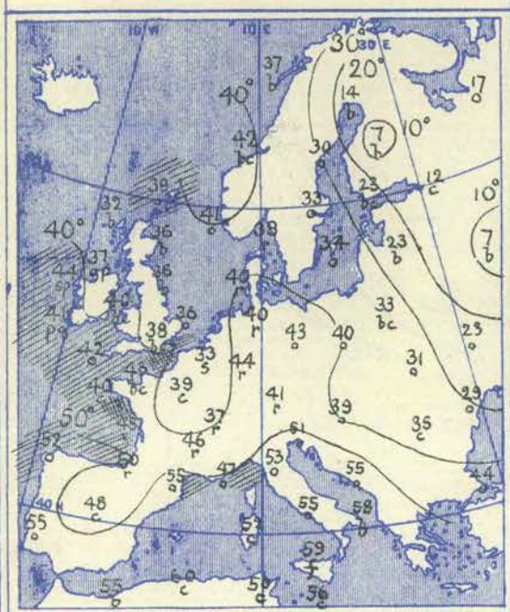


Wind light and anticyclonic over the North-Eastern half of our area, and also in the extreme south-west. Cyclonic elsewhere, Westerly wind in Ireland and South-Easterly current on the eastern shores of the North Sea, both blowing strongly or with the force of a slight gale. No important change taking place later.

Barometer at 8 a.m. ranging from above 30·8 ins. in a large anticyclone over Russia, and above 30·3 ins. in Portugal, to below 29·9 ins. in a depression near Malta, and to less than 29·1 ins. in a large and deep disturbance off our north-west coasts. Gradients rather steep over the whole of the north-western regions. Anticyclone over Russia decreasing in intensity during day and depression off our north-west coasts moving eastwards very slowly. Small and ill-defined secondaries passing eastwards over our Islands to the North Sea.

Wednesday, 30th March, 1904.

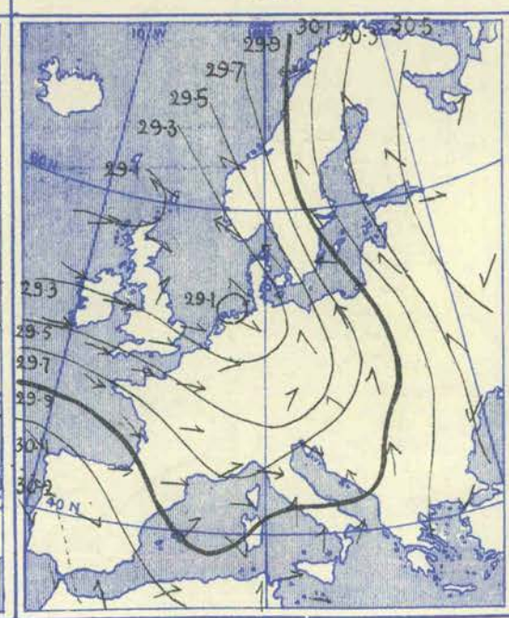
Temperature and Weather. 8 a.m.

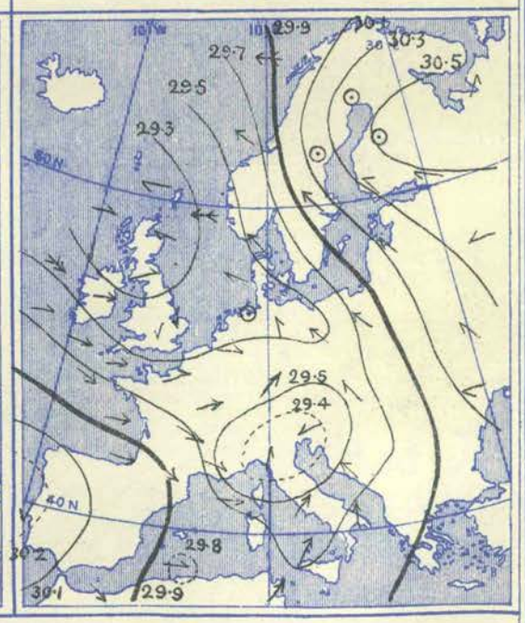


Weather at 8 a.m. fine in many parts of Algeria, the United Kingdom, Norway, Finland, and Russia. Cloudy or overcast in almost all other regions, with showers of sleet or snow at some of our stations and at Brussels, and steady rain at Biarritz, Lyons, in the Netherlands, Denmark, and northern and western Germany, and also in the north of Italy. Rain becoming very general later except in Russia and the north of Scandinavia—heaviest in the southern countries.

Temperature risen over Spain and Germany, fallen in most other countries. Readings in morning highest, 60° at Algiers, 59° at Palermo and Barcelona, and 58° Brindisi. Lowest, (1) 7° at Kuopio and Moscow, 13° at Kharkov, 14° at Haparanda, (2) 35° or 36° over the central parts of the United Kingdom, (3) 33° at Brussels, 39° at Paris. Rising subsequently to 50° at Nairn, to a few degrees higher at most French stations, to above 60° in most Mediterranean localities, and to above 70° in Algeria—highest reading, 78° at Nemours.

Barometer and Wind. 8 a.m. 6 p.m.



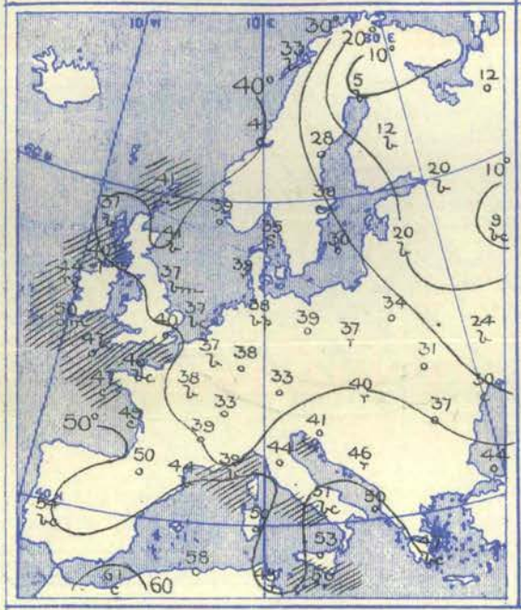


Wind at 8 a.m. showing a vast cyclonic circulation around the North Sea and Scotland. Westerly current strong to a moderate gale over Ireland, England, and the north of France, and South-Easterly and Easterly currents equally strong or somewhat stronger over Denmark, the Baltic, and Scandinavia. Not much change over the northern countries later, but an irregular circulation of cyclonic winds—strong to a gale—setting in around the north of Italy.

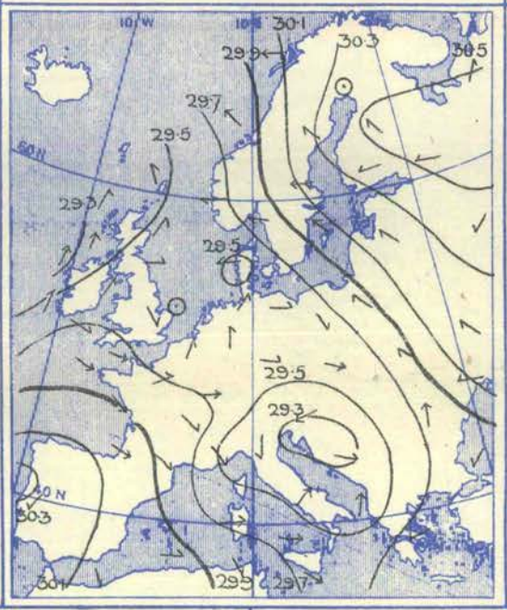
Barometer at 8 a.m. highest, above 30·5 ins. in a large anticyclone over northern Russia and above 30·2 ins. over the south-western portion of the Spanish Peninsula. Lowest, below 29·2 ins. over the North Sea and less than 29·1 ins. over the north of Scotland. Several local irregularities of pressure over the western half of our area. Northern depression becoming less deep during day, but a rather deep disturbance forming quickly over the north of Italy, and gradients in the south increasing very considerably.

Thursday, 31st March, 1904.

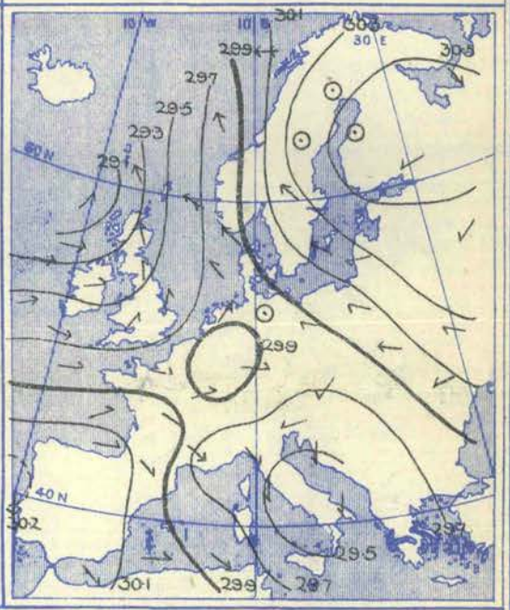
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over the greater part of Russia and Finland, as well as at some English and Scotch stations; cloudy or dull in almost all other regions, with rain in Ireland, Denmark, North Germany, the south of Austria, on the shores of the Adriatic, and also at Malta, Tunis, and Le Mans. Rain falling later all over our Islands and in most parts of southern Europe and in Algeria—heaviest amounts 0·5 in. at Stornoway, 0·9 in. at La Calle, and 2·2 ins. at Brindisi.

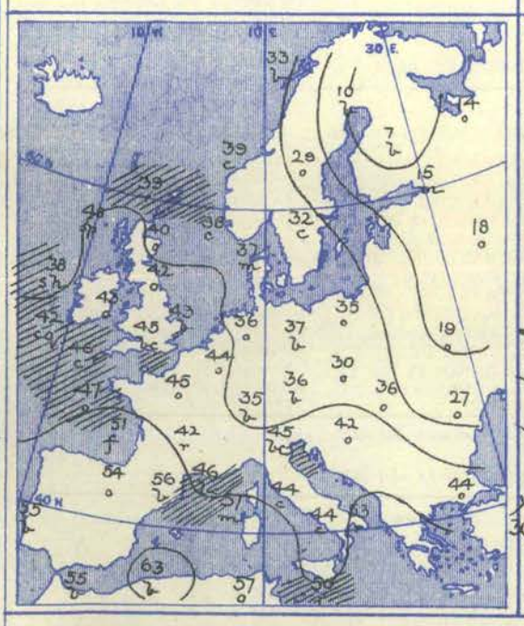
Temperature in morning ranging from 61° at Nemours, to below 50° in most parts of Italy, to below 40° over France, central England, and central Europe, and to below 20° in the far east and north-east. Lowest values, 9° at Moscow and 5° at Haparanda. Maxima during day 50° or above at a few of our own stations, 61° at Nice, 68° at Nemours, and 73° at Tunis. Thermometer not touching 50° in some parts of Italy and remaining below 32° in the east and north-east of Europe.

Wind at 8 a.m. varying greatly both in direction and force. Mainly anticyclonic over the north-eastern and south-western portions of our area and cyclonic elsewhere; strong to a gale over the Baltic, on our north-west coasts, and in several parts of the Mediterranean and Adriatic. Veering to the Westward on our west coasts by evening and continuing to blow strongly. Little change elsewhere.

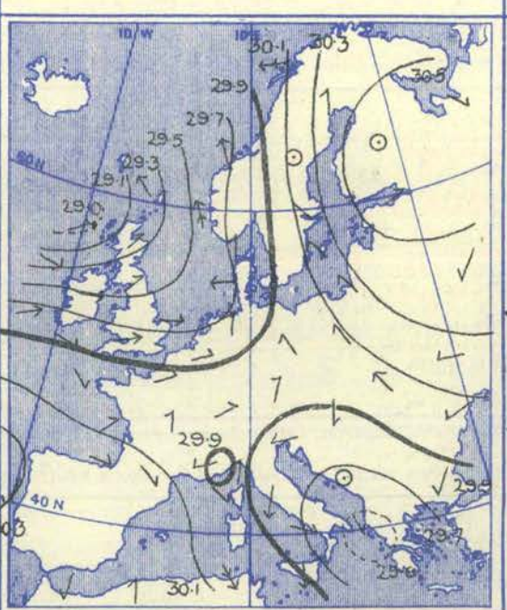
Barometer at 8 a.m. ranging from above 30·5 ins. in a large anticyclone over Finland and northern Russia, and above 30·3 ins. in a similar system extending from the Atlantic to Portugal to below 29·3 ins. (1) in a depression off our north-west coasts, and (2) in another over Bosnia and the adjacent part of the Adriatic. Relatively low over the North Sea and below 29·5 ins. in a minimum over Holstein. Depression off our coasts moving north-eastwards later, and that in the south south-eastwards. Small ill-defined secondaries passing eastwards across England and disturbance over Holstein disappearing.

Friday, 1st April, 1904.

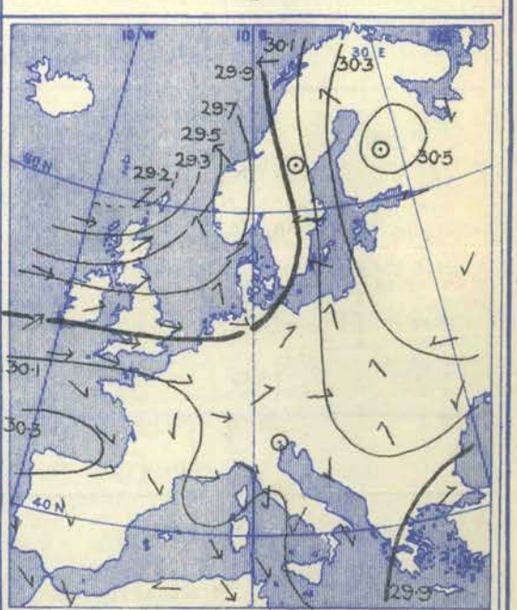
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in many parts of northern Europe, the Riviera, Algeria, Portugal, Ireland and England; cloudy or overcast in most other regions. Rain, hail or sleet showers falling on our north and north-west coasts, steady rain at Limoges, Lyons, Tunis, and Malta, and snow at Karlstad. Slight rain experienced later in most parts of our Islands and rather heavier falls in various continental localities.

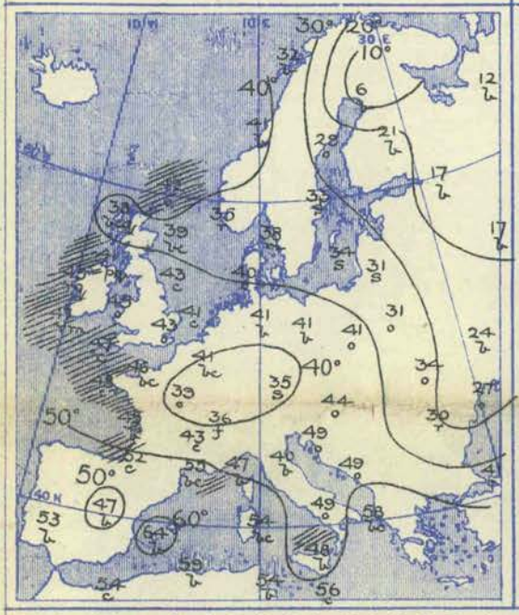
Temperature fallen in Italy; changed irregularly or risen generally. Readings at 8 a.m. highest, 68° at Algiers, 57° at Sanguinaires, and 55° at Lisbon. Lowest 7° at Kuopio, 10° at Haparanda, 13° at Kharkov, 14° at Archangel, and 18° at Moscow. Below 40° over central Europe and at Florence, and also in central Ireland, and no higher than 44° at Rome and Naples. Maxima during day just exceeding 50° at some of our own stations and in Germany, but thermometer rising to above 60° in the south of France, to 70° at Madrid and San Fernando, 73° at Oran, and to 75° at Sfax.

Wind light and anticyclonic in the north-east and south-west of our area and cyclonic in the north-west and south-east. Westerly current strong over England and strong to a gale in Ireland. Southerly wind strong to a gale over Denmark and Norway. Strong Northerly winds prevailing over the central parts of the Mediterranean, and a North-West gale at Tunis. Scarcely any change later as a whole, but gale at Tunis subsiding.

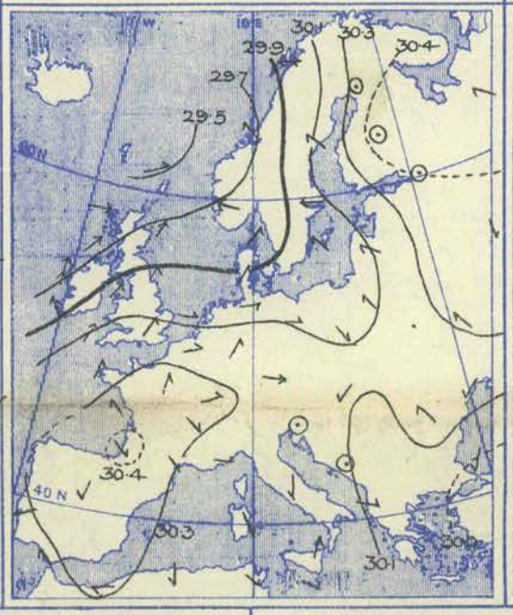
Barometer still highest, above 30·5 ins., in a large anticyclone over northern Europe, and relatively high, 30·3 ins., in Portugal. Lowest, less than 29·0 ins., in a depression having its centre off the Hebrides and below 29·6 ins. in another system centred over Montenegro. Depression in north-west moving slowly north-eastwards later, and that in Montenegro either dispersing or moving very quickly eastwards.

Saturday, 2nd April, 1904.

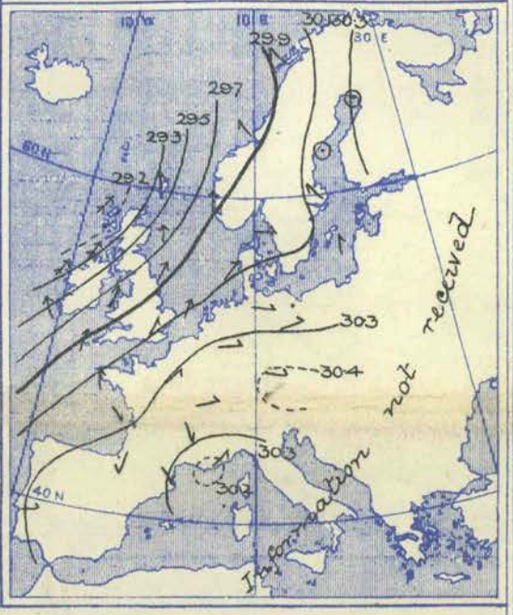
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather at 8 a.m. fine in Scotland, the Netherlands, Russia, and various parts of southern Europe, and in Algeria; cloudy or dull in most other places, with rain at Skudesnaes, Prague, and Hermanstadt, and passing showers in Ireland. Snow falling over the Baltic, and also at Munich. Heavy rain experienced later in the extreme north and north-west of our Islands, and smaller quantities in other parts of the United Kingdom and at some German stations.

Temperature showing no general or decided change. Readings in morning ranging from 64° at Alicante and 59° at Barcelona and Algiers to below 50° over the central parts of Europe, France, most of Italy, and the United Kingdom to below 30° over the eastern and north-eastern regions, and to below 20° in places. Lowest value, 17° at Moscow and St. Petersburg, 12° at Archangel, and 6° at Haparanda. Rising subsequently to 55° in London and at Parsonstown, 56° at Paris, 63° at Rochefort, and to 67° at Perpignan. Thermometer not exceeding 32° in the north of Sweden.

Wind in morning blowing a gale from the Southward on the extreme north-west coast of Ireland, and fresh or strong breezes on our west coasts generally. Strong from East-South-East at Skudesnaes, and an Easterly gale prevailing at Bodö. Light and anticyclonic over the greater part of the Continent. Wind increasing to a fresh or strong gale from the Southward or South-Westward along our west and north-west coasts during day, and to a whole gale at Malin Head during the night. Gale at Bodö subsiding.

Barometer in morning ranging from 30·3 ins. to above 30·4 ins. in a large anticyclone over Russia and Finland, and in another system over France and the Iberian Peninsula to 29·5 ins. and less in a depression off the Shetlands, and to below 30·0 ins. in a shallower disturbance over Asia Minor. Barometer falling very briskly on our west and north-west coasts later, and gradients steepening over the whole of western Europe.

IV.—GENERAL NOTES, etc.

There were during the whole of the period two areas of high pressure—one over northern Europe and the other over the Iberian Peninsula or its neighbourhood—and during the early days of the week these were joined by a band of relatively high readings. The chief cyclonic systems arrived from the Atlantic and spread over the United Kingdom as they moved north-north-eastwards, while some of their secondaries passed eastwards and divided the two anticyclones. Other depressions were also observed over the Mediterranean and Italy and some of these were of considerable depth. The general direction of the wind was between South and West over our Islands and their neighbourhood and between South-East and North-East over northern Europe. The former were frequently strong, and on more than one occasion blew a slight gale, while at the end of the week they rose to the strength of a whole gale in the north of Ireland. The latter current was less strong as a whole, but gales were sometimes experienced over Denmark and Norway and very strong winds over the Baltic. The cyclonic circulation of the wind over Italy and the Mediterranean was only moderate during the greater part of the week, but on Wednesday and Thursday strong breezes to moderate or fresh gales were experienced in many localities. Temperature was higher generally than during the preceding week, but the advance was not very marked. The weather was dry over the major portion of the continent, but precipitation was sometimes reported from Germany and the Baltic and also from southern Europe. Over our Islands and the adjacent parts of the continent rain was rather frequent, but except in the west and north-west the measurements were slight.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 74.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	18·3	− 10·9	20	− 12	SHEFFIELD	31·7	—	36	—	WESTBOURNE †	31·2†	− 5·8	35†	− 7
STRATHPEFFER SPA	23·6	− 2·2	26	− 3	WORKSOP	32·0	+ 5·7	36	+ 6	VENTNOR HOSPITAL	25·1	− 12·9	28	− 15
EDINBURGH	21·4	− 3·4	24	− 4	THURCASTON	31·6	+ 4·6	35	+ 5	BOURNEMOUTH	30·2	—	34	—
COCKLE PARK	31·4	—	35	—	MARGATE	30·3	− 1·7	34	− 2	MARLBOROUGH	20·2	− 8·5	23	− 10
NEWCASTLE-ON-TYNE	23·5	—	26	—	BROADSTAIRS	—	—	—	—	SOUTHPORT	29·0	—	33	—
YORK	21·3	− 6·2	24	− 7	RAMSGATE	27·9	—	31	—	RHYL	—	—	—	—
SKEGNESS	36·5	—	41	—	EASTBOURNE	25·5	− 10·0	29	− 11	ABERDOVEY †	31·2†	—	35†	—
CROMER	34·4	—	39	—	BRIGHTON	19·8	− 15·0	22	− 17	TENBY	32·7	− 4·5	37	− 5
LOWESTOFT	35·1	—	39	—	WORTHING	28·7	—	32	—	TORQUAY	30·5	− 6·4	34	− 7
DUNMOW	27·4	—	31	—	BOGNOR †	— †	—	— †	—	NEWQUAY	26·1	− 9·5	29	− 11
										GUERNSEY	39·2†	− 0·2	44†	0

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values below must be substituted for those which have already appeared.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Twenty Seventh Year No. 1 p. 2.	Stornoway	—	—	—	—	—	—	—	—	—	1·80	+ 0·64	—	—	—	—
" " " "	Malin head	—	—	—	—	—	—	—	—	—	0·67	+ 0·05	—	—	—	—
" " " "	Pembroke	—	—	—	—	—	—	—	—	—	1·59	+ 0·72	—	—	—	—
" " " "	Hereford	—	—	44·3	—	39·0	+ 0·5	6	33	—	—	—	—	—	—	—
" " " No. 2 p. 8.	Hillington	—	—	44·9	—	40·3	+ 3·6	8	23	—	—	—	—	—	—	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 14. FOURTEENTH WEEK, ENDING SATURDAY, APRIL 9TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 80.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	56	32	47·0	36·0	41·2	1 below	14	− 7	22	0	86	− 49	433	− 34
	1. SCOTLAND, EAST	61	30	49·8	36·0	42·6	0 (average)	29	+ 1	17	− 6	94	− 85	533	+ 16
	2. ENGLAND, N.E.	61	35	53·2	40·2	46·4	3 above	38	+12	5	− 12	128*	− 62	415	− 25
	3. ENGLAND, EAST	64	37	54·9	41·9	48·1	4 above	43	+ 8	0	− 19	153	− 82	396	− 88
	4. MIDLAND COUNTIES	65	32	53·9	40·6	47·0	3 above	41	+ 5	4	− 15	156	− 99	449	− 37
	5. ENGLAND, SOUTH	64	34	53·4	42·4	47·7	2 above	40	+ 2	0	− 12	187	− 89	340	− 29
Principal Grazing Districts.	6. SCOTLAND, WEST	56	34	50·5	39·2	44·6	1 above	30	+ 2	8	− 8	135	− 58	359	− 13
	7. ENGLAND, N.W.	60	34	50·8	40·7	45·5	1 above	30	+ 1	4	− 10	119	− 87	380	+ 18
	8. ENGLAND, S.W.	58	36	51·9	43·6	47·5	2 above	39	+ 3	0	− 10	260	− 39	251	− 33
	9. IRELAND, NORTH	59	33	49·8	38·8	44·1	1 below	28	− 5	9	− 4	170	− 90	326	+ 3
	10. IRELAND, SOUTH	60	36	53·2	41·9	47·2	1 above	37	− 1	0	− 9	282	− 67	226	− 9
	— CHANNEL ISLANDS	56	42	53·5	44·9	49·0	1 above	49	+ 8	0	− 3	354	− 36	80	− 38

Rainfall.

	DISTRICTS. (See p. 80.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	29	22 more	69	+ 5	16·0	+ 1·7
	1. SCOTLAND, EAST	6	9	5 more	62	+ 9	8·4	+ 0·7
	2. ENGLAND, N.E.	5	3	1 less	59*	+10	5·8	+ 0·2
	3. ENGLAND, EAST	4	2	2 less	58	+ 7	6·3	+ 0·9
	4. MIDLAND COUNTIES	5	3	1 less	66	+19	8·0	+ 1·7
	5. ENGLAND, SOUTH	4	3	2 less	64	+16	9·4	+ 2·4
Principal Grazing Districts.	6. SCOTLAND, WEST	7	17	10 more	64	+ 8	15·9	+ 2·1
	7. ENGLAND, N.W.	7	8	3 more	63	+11	10·4	+ 2·3
	8. ENGLAND, S.W.	5	6	1 more	67	+13	12·8	+ 2·8
	9. IRELAND, NORTH	7	10	5 more	74	+11	11·7	+ 2·8
	10. IRELAND, SOUTH	6	7	0 (average)	73	+15	13·8	+ 2·8
	— CHANNEL ISLANDS	6	3	2 less	73	+14	13·2	+ 4·6

Bright Sunshine.

	DISTRICTS. (See p. 80.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	24	− 6	25	− 6	190	− 30	20	− 3
	1. SCOTLAND, EAST	45	+15	48	+16	219	− 39	23	− 4
	2. ENGLAND, N.E.	44	+14	48	+15	218*	− 59	22	− 6
	3. ENGLAND, EAST	39	+ 4	42	+ 4	251	− 53	25	− 5
	4. MIDLAND COUNTIES	43	+13	47	+14	207	− 44	21	− 4
	5. ENGLAND, SOUTH	35	0	38	0	246	− 44	24	− 4
Principal Grazing Districts.	6. SCOTLAND, WEST	36	+ 6	39	+ 6	195	− 63	20	− 6
	7. ENGLAND, N.W.	34	+ 5	37	+ 5	206	− 44	21	− 4
	8. ENGLAND, S.W.	33	− 4	36	− 4	240	− 73	24	− 7
	9. IRELAND, NORTH	30	− 2	32	− 2	199	− 59	20	− 6
	10. IRELAND, SOUTH	30	− 4	33	− 5	223	− 73	22	− 7
	— CHANNEL ISLANDS	31	−10	34	−11	302	− 56	30	− 5

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this period was extremely rough and unsettled in all the north-western and northern districts, with frequent showers of rain or hail, and at times steady rain. In the east and south the wind was, as a rule, less strong, the precipitation far less heavy and general, and the sky more often clear. Thunder was heard at Cally on Sunday, and on the same day a thunderstorm was experienced at Blackpool.

Temperature was above the mean as a whole, but only just equalled it in Scotland E., and was a degree below it in Scotland N. The highest of the maxima were recorded on Friday, when they ranged from 65° in the Midland Counties and 64° in England E. and S., to 56° in the Channel Islands, and Scotland N. and W. The lowest minima, which were nearly all registered during the earlier days of the week, varied from 30° in Scotland E. and 32° in Scotland N. and the Midland Counties, to 37° in England E., and to 42° in the Channel Islands.

Rainfall was very unevenly distributed. In Scotland N. it was more than four times the normal, in Scotland E. and W. and Ireland N. about twice as large, and rather more than the mean amount in England N.W. and S.W. Over all the eastern, southern, and central parts of England, and also in the Channel Islands, there was a deficit.

Bright Sunshine exceeded the average amount in all the eastern and central districts of Great Britain, as well as in England N.W. and Scotland W., but was only equal to the mean in England S., and less in all other parts of the Kingdom. The percentage of the possible duration ranged from 48 in Scotland E. and England N.E. and 47 in the Midland Counties, to 34 in the Channel Islands, and to 25 in Scotland N. The highest percentage at any station was 58 at Aberdeen, while at a few other places, including Sheffield, the percentage was 51.

Barometer and Wind. The general distribution of pressure showed little variation throughout the week, the barometer being highest in the south or south-west and lowest in the north. The type was thus Westerly, and most of the depressions, which came from the Atlantic and moved eastwards or north-eastwards over the northern part of our area, were both large and deep. Very strong winds were consequently experienced on all coasts, and the north-west and north were occasionally visited by gales of considerable severity. On Wednesday a violent but brief gale was felt on all the north-east coasts of Great Britain and over the North Sea.

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II.—DATA from which the SUMMARY on page 79 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	45	35	44·1	38·0	40·9	+ 0·4	6	14	7	1·42	+ 0·89	*	*	*	*
	Stornoway	51	33	46·0	35·3	40·4	- 1·7	11	25	7	2·56	+ 1·92	34·5	+ 1·7	37	+ 2
	Wick Ꞩ	52	33	47·6	34·6	40·8	- 1·2	16	28	7	1·16	+ 0·76	*	*	*	*
	Lairg Ꞩ	56	32	47·9	34·6	40·9	+ 0·5	17	28	7	2·21	+ 1·61	*	*	*	*
	Glencarron Ꞩ	52	33	46·7	36·3	41·3	+ 0·1	13	22	7	4·70	+ 3·53	*	*	*	*
	Fort Augustus Ꞩ	54	32	48·3	35·4	41·5	- 1·4	18	25	7	3·84	+ 3·29	13·9	- 10·4	15	- 11
	Fort William	52	35	48·4	37·9	42·9	- 0·5	24	11	7	4·25	+ 3·25	12·9	- 16·3	14	- 18
1. SCOTLAND, E.	Nairn	57	33	49·0	35·3	41·8	- 0·9	20	26	7	1·07	+ 0·73	*	*	*	*
	Aberdeen	55	33	50·6	38·0	44·0	+ 1·2	31	11	5	0·22	- 0·27	54·3	+ 21·0	58	+ 22
	Braemar Ꞩ	52	30	45·1	33·5	39·0	- 0·4	9	30	7	1·01	+ 0·48	*	*	*	*
	Ochtertyre Ꞩ	57	32	50·0	35·9	42·6	- 0·5	30	17	7	1·53	+ 0·98	*	*	*	*
	Leith	61	35	52·9	38·4	45·3	+ 1·6	38	10	6	0·94	+ 0·61	*	*	*	*
	Marchmont Ꞩ	59	32	51·0	34·9	42·6	+ 0·9	34	20	6	0·88	+ 0·35	45·6	+ 15·5	49	+ 17
2. ENGLAND, N.E.	Alnwick Castle	58	35	51·6	39·4	45·2	+ 3·2	33	7	7	0·41	- 0·07	*	*	*	*
	Durham	59	35	52·2	39·2	45·4	+ 2·8	36	8	5	0·32	- 0·12	47·6	+ 19·4	51	+ 21
	Shields	59	36	53·0	39·7	46·0	+ 3·3	38	6	6	0·48	+ 0·10	*	*	*	*
	Scarborough Ⓜ	58	37	55·0	39·9	47·1	+ 3·9	45	6	4	0·17	- 0·23	45·3	—	49	—
	Spurn Head	57	39	53·0	42·3	47·4	+ 4·1	38	0	2	0·05	- 0·25	*	*	*	*
	Lincoln	61	37	54·2	40·8	47·2	+ 2·8	41	3	4	0·19	- 0·17	*	*	*	*
	Fulbeck (Lincolnshire)	—	—	—	—	—	—	—	—	5	0·19	- 0·17	47·3	—	51	—
3. ENGLAND, E.	Hillington Ⓜ	59	38	54·6	41·1	47·5	+ 3·1	42	3	3	0·18	- 0·20	36·9	+ 4·1	40	+ 4
	Yarmouth	58	40	54·4	41·4	47·6	+ 4·4	42	2	4	0·14	- 0·25	*	*	*	*
	Geldeston	58	38	55·5	41·3	48·1	+ 3·8	46	2	3	0·13	- 0·22	36·7	+ 1·5	40	+ 2
	Cambridge	62	37	55·7	41·0	48·0	+ 2·9	46	3	5	0·28	- 0·04	37·2	+ 3·0	40	+ 3
	Felixstowe	56	38	54·6	42·9	48·5	+ 3·9	46	0	3	0·13	—	36·2†	—	39†	—
	Clacton-on-Sea	57	38	53·9	41·7	47·5	+ 2·4	40	1	3	0·14	—	41·9†	—	46†	—
	Rothamsted	64	38	54·8	42·1	48·2	+ 4·1	43	0	6	0·27	- 0·17	39·0	+ 6·5	42	+ 7
	Shoeburyness	60	39	55·7	43·4	49·3	+ 3·9	51	0	2	0·10	- 0·19	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	57	35	50·6	39·0	44·5	+ 2·2	30	8	6	0·51	+ 0·04	36·2	—	39	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	61	32	53·7	41·0	47·1	+ 2·4	40	3	5	0·26	- 0·10	45·1	—	49	—
	Colly Weston (Stamford)	63	37	56·0	42·0	48·7	+ 4·0	47	0	5	0·16	- 0·20	*	*	*	*
	Cheadle Ⓜ	61	34	51·9	38·3	44·8	+ 1·6	35	10	5	0·47	+ 0·01	*	*	*	*
	Birmingham (Edgbaston)	62	36	53·6	40·7	46·8	+ 2·8	39	4	4	0·20	- 0·21	41·4	—	45	—
	Shrewsbury	60	37	54·1	40·0	46·7	+ 2·1	41	6	7	0·39	—	*	*	*	*
	Hereford Ⓜ	65	38	56·0	41·3	48·3	+ 3·5	47	2	5	0·23	- 0·14	*	*	*	*
	Cirencester	59	34	53·8	40·6	46·9	+ 3·5	40	4	5	0·48	+ 0·05	47·1	+ 13·6	51	+ 15
	Oxford	63	37	55·4	42·7	48·8	+ 3·4	48	0	6	0·22	- 0·14	41·6	+ 9·3	45	+ 10
5. ENGLAND, S.	London	64	37	55·9	42·3	48·8	+ 2·7	48	0	4	0·33	- 0·04	34·2‡	+ 7·7‡	37‡	+ 8‡
	Wisley	63	38	55·8	42·9	49·0	+ 2·9	49	0	4	0·27	—	37·2	—	40	—
	Swarraton (Alresford) Ⓜ	59	35	53·6	43·0	48·1	+ 4·4	43	0	5	0·35	- 0·09	*	*	*	*
	Tunbridge Wells Ⓜ	62	34	54·3	41·1	47·4	+ 2·7	42	3	4	0·24	—	40·3	—	44	—
	Dungeness	54	38	50·4	42·1	46·1	+ 1·5	29	0	4	0·14	- 0·18	33·0	—	36	—
	Hastings (St. Leonards)	58	36	52·7	41·8	47·0	+ 1·8	36	1	6	0·39	- 0·05	31·1	- 6·7	34	- 7
	Southampton	63	37	56·9	43·2	49·7	+ 3·2	54	0	4	0·30	- 0·14	34·7	- 1·7	38	- 2
	Portland Bill	53	43	50·1	44·4	47·1	+ 0·4	36	0	3	0·11	—	*	*	*	*
	Shaftesbury Ⓜ	56	35	51·6	40·4	45·7	+ 1·4	33	4	4	0·39	- 0·16	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	55	35	51·4	37·9	44·3	- 0·1	33	11	7	3·95	+ 2·93	*	*	*	*
	Glasgow	54	34	49·1	37·9	43·2	- 0·1	26	11	7	1·93	+ 1·43	31·7	+ 5·1	34	+ 6
	Cally Ꞩ	54	35	51·1	39·4	45·0	+ 1·2	32	7	7	1·24	+ 0·58	*	*	*	*
	Aspatria	54	38	50·0	39·8	44·7	+ 1·5	28	6	6	0·91	—	31·0	—	33	—
	Douglas (Isle of Man)	56	38	50·8	41·0	45·7	+ 1·5	30	3	7	0·53	- 0·04	45·2	+ 6·7	49	+ 7
7. ENGLAND, N.W.	Newton Rigg	54	34	47·1	37·9	42·3	+ 0·2	19	11	7	1·08	—	35·1	—	38	—
	Stonyhurst	52	39	48·8	40·6	44·5	+ 1·1	23	4	7	1·19	+ 0·57	37·1	+ 5·9	40	+ 6
	Blackpool Ⓜ	53	37	50·0	40·3	44·9	+ 0·6	27	5	7	0·52	+ 0·09	36·8	+ 5·3	40	+ 6
	Manchester (Prestwich)	57	37	51·3	40·1	45·4	+ 1·3	32	5	7	0·73	+ 0·27	34·6	—	38	—
	Liverpool Obsy. (Bidston)	57	37	50·3	40·9	45·4	+ 0·3	28	3	7	0·47	+ 0·11	34·4	—	37	—
	Chester (Hawarden Bridge)	59	36	52·9	41·3	46·8	+ 0·9	37	2	4	0·27	—	*	*	*	*
	Llandudno Ⓜ	56	39	53·3	41·8	47·3	+ 1·5	38	1	7	0·70	+ 0·30	35·3	+ 2·8	38	+ 3
	Holyhead	54	40	50·3	41·6	45·7	+ 0·2	28	1	6	0·48	+ 0·03	*	*	*	*
	Bettws-y-Coed	60	38	52·8	41·4	46·8	+ 1·1	36	2	7	1·48	—	24·6	—	27	—
8. ENGLAND, S.W.	Pembroke	50	43	48·3	43·9	46·0	+ 0·9	28	0	5	0·32	- 0·13	32·9	- 5·6	36	- 6
	Clifton	55	42	51·8	44·3	47·9	+ 2·7	41	0	4	0·65	+ 0·15	*	*	*	*
	Bath	55	40	53·0	43·9	48·2	+ 2·7	43	0	6	0·68	+ 0·22	30·2	—	33	—
	Arlington (N. Devon)	51	36	49·3	41·0	45·0	+ 1·4	25	3	6	1·25	+ 0·55	*	*	*	*
	Cullompton Ⓜ	58	37	54·6	43·1	48·6	+ 2·4	46	0	6	0·54	- 0·01	33·5	- 0·3	36	0
	Falmouth	58	42	52·4	44·1	48·1	+ 1·5	43	0	6	0·65	- 0·03	38·4	- 0·9	42	- 1
	Plymouth	58	43	53·6	44·7	48·9	+ 2·1	48	0	3	0·22	- 0·32	32·3	- 5·2	35	- 6
9. IRELAND N.	Malin Head	53	34	46·6	37·4	41·8	- 3·0	13	18	7	1·02	+ 0·58	*	*	*	*
	Edenfel (Omagh)	55	33	49·3	37·4	43·1	- 0·3	27	13	7	1·41	+ 0·87	*	*	*	*
	Blacksod Point	53	38	49·4	41·0	45·0	- 1·1	25	3	7	1·03	+ 0·38	*	*	*	*
	Markree Castle	53	36	49·9	39·8	44·6	- 0·1	27	6	7	1·24	+ 0·66	26·0	- 7·2	28	- 8
	Armagh	59	35	53·1	38·5	45·5	+ 1·5	39	10	7	0·95	+ 0·48	33·9	+ 3·7	37	+ 4
	Donaghadee	57	36	50·3	38·9	44·3	- 0·3	29	9	7	0·41	- 0·03	*	*	*	*
10. IRELAND, S.	Dublin	60	37	54·3	41·1	47·4	+ 1·0	42	3	6	0·61	+ 0·16	38·6	+ 3·6	42	+ 4
	Birr Castle	57	37	51·7	40·1	45·6	+ 0·8	33	5	6	0·83	+ 0·33	30·2	- 2·2	33	- 2
	Kilkenny	60	36	53·3	40·9	46·8	+ 0·9	38	3	5	0·49	- 0·02	*	*	*	*
	Waterford	60	38	54·3	43·0	48·4	+ 3·2	45	0	4	0·28	- 0·34	*	*	*	*
	Roche's Point	57	38	53·4	42·6	47·7	+ 0·7	40	0	5	0·20	- 0·54	*	*	*	*
	Valencia	56	39	51·0	43·6	47·1	- 0·4	36	0	6	0·46	- 0·44	22·0	- 13·7	24	- 15
	Killarney	59	37	54·1	42·8	48·2	+ 1·9	43	0	6	1·47	+ 0·66	*	*	*	*
	Foynes	60	37	53·1	40·9	46·7	+ 0·7	38	3	6	1·01	+ 0·42	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	42	54·9	44·1	49·2	+ 1·4	50	0	6	0·25	- 0·25	34·6	- 4·6	38	- 5
	Jersey	53	44	52·0	45·7	48·7	+ 0·9	47	0	5	0·36	- 0·10	21·6	- 20·6	24	- 22

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ꞩ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

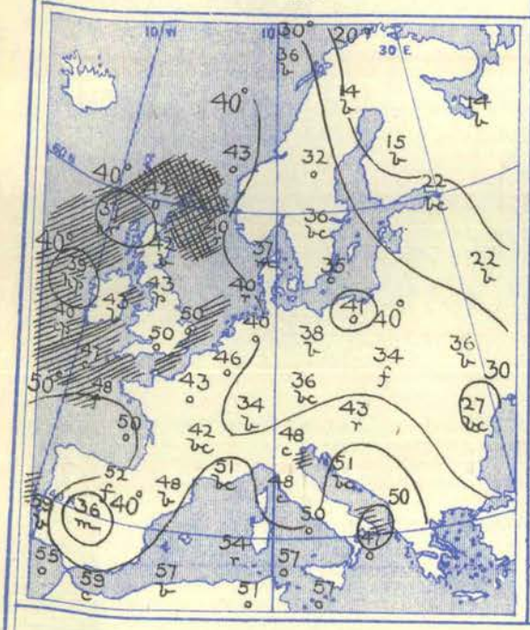
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

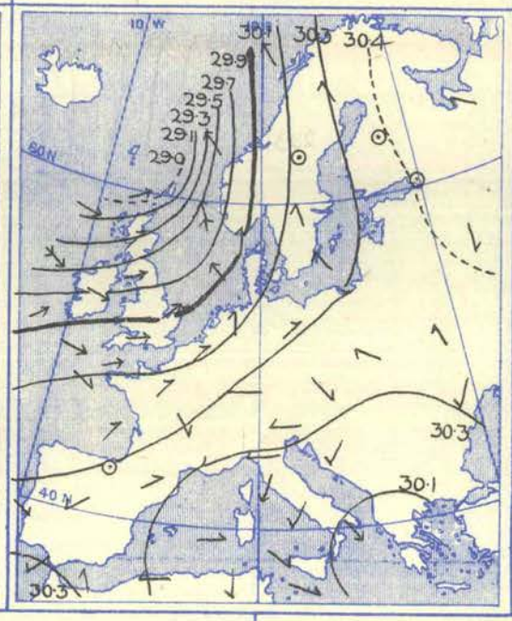
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 3rd April, 1904.

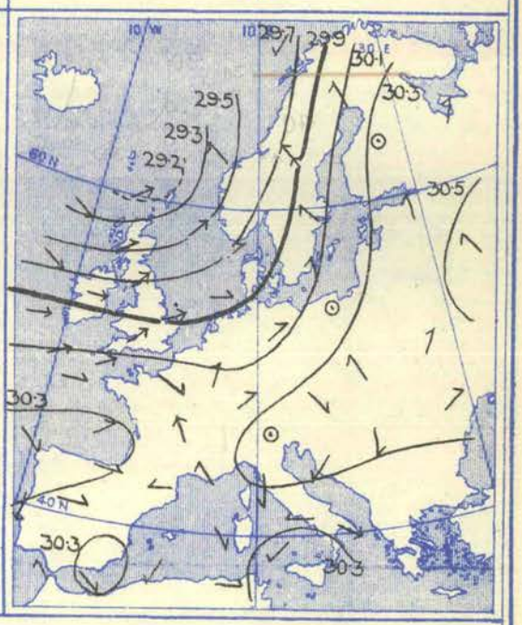
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in many of our Islands and over central and northern Europe and in Portugal; cloudy or dull in most other regions, with rain at Buda-Pesth, Fanö, and Skudesnaes, and hail or rain showers on our extreme north-west coasts. Some rain falling later in all districts except parts of Italy, and over Russia and the Iberian Peninsula. Heaviest falls, 0·5 in. at Oxö and 0·7 in. at Brindisi.

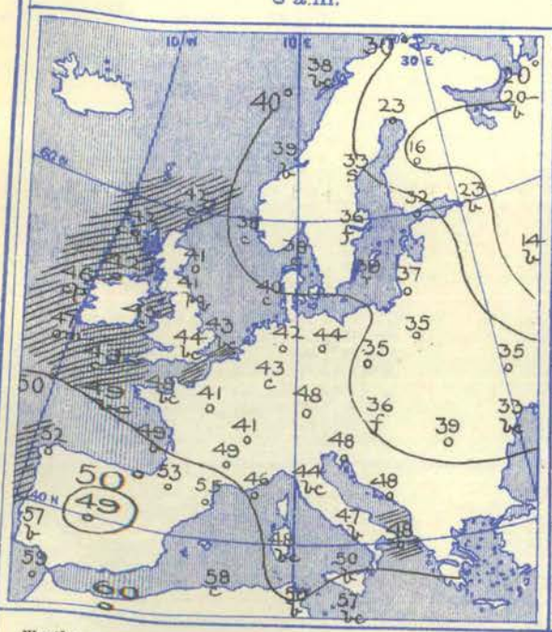
Temperature risen over the greater part of our area. Readings in morning highest, 59° at Lisbon and Nemours and 57° at Malta and Palermo. Lowest, 14° at Archangel and Haparanda, 22° at Moscow, St. Petersburg, and Kharkov, 36° at several stations in central Europe and at Madrid and Stockholm. Rising later to 55° in London and at Clacton, to above 60° in the south of France and over Italy, and to above 70° in Spain. Highest maximum, 76° at Madrid.

Wind at 8 a.m. strong from South-West or West over our Islands generally, with a moderate to strong gale on our north-west coasts; equally strong from South or South-East on the eastern shores of the North Sea. Light and anticyclonic over Russia and central Europe, but light to fresh and cyclonic over Italy. Scarcely any change occurring during day.

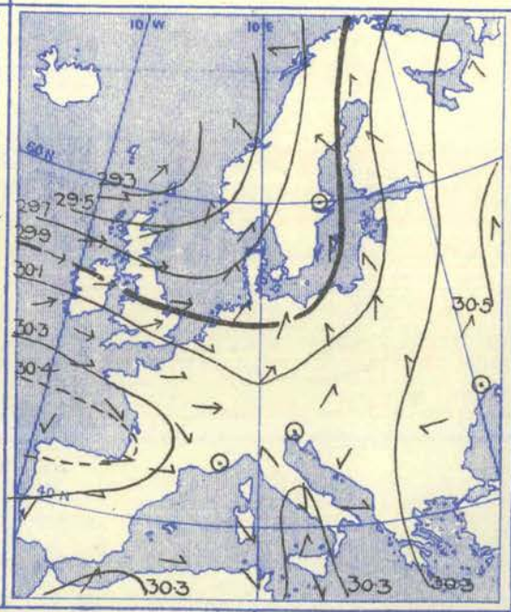
Barometer at 8 a.m. ranging from above 30·4 ins. in a large anticyclone over Russia and very little lower in a long band extending thence to the Iberian Peninsula, to less than 30·1 ins. in a depression over Turkey and Greece, and to less than 29·0 ins. in a large and deep disturbance centred off the north of Scotland. Northern disturbance moving slowly north-eastwards during day, but no great change taking place in the general distribution of pressure. Depression over south-eastern Europe dispersing.

Monday, 4th April, 1904.

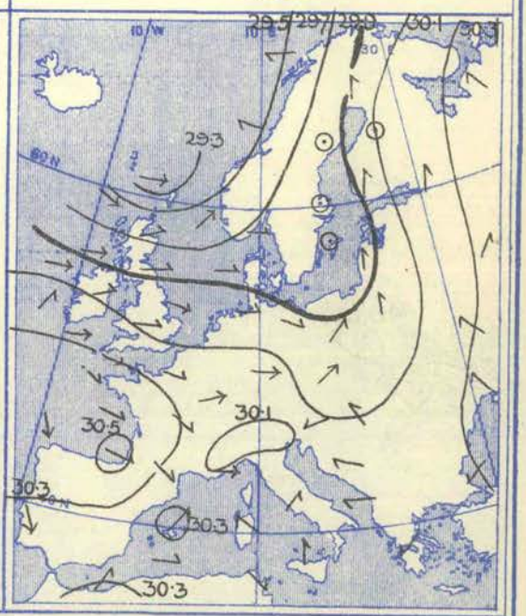
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull in most regions, but fine in several parts of Russia, Italy, and Portugal. Showery at several of our own northern and north-western stations, rainy at Cape Gris Nez, Brussels, Bilbao, and Stockholm, and foggy in Hungary. Snow falling at Hernösand. Showers later at nearly all our own stations, and some rain or snow falling over the northern half of the Continent, as well as in the south of Austria and in some parts of Italy.

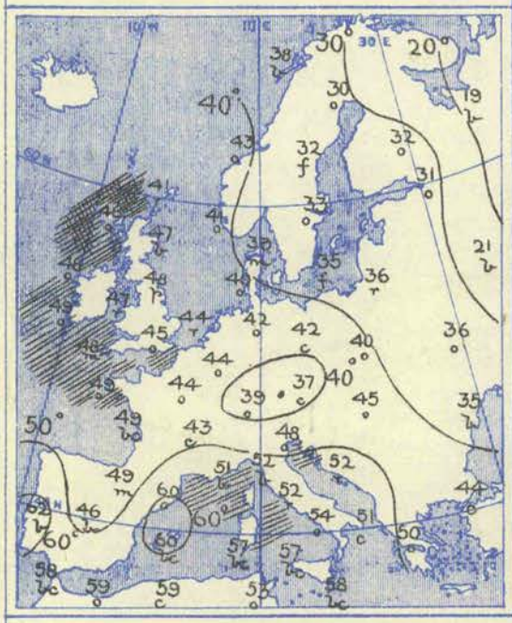
Temperature changed irregularly. Readings at 8 a.m. ranging from 60° at Nemours, 59° at Barcelona, and 57° at Lisbon and Malta, to below 50° over Italy, central Europe, France, and the United Kingdom, and to below 20° in the north-east of Europe. Lowest values, 16° at Kuopio and 14° at Moscow. Maxima during day exceeding 50° in nearly all parts of our Islands, Germany and France, above 60° in most Mediterranean regions, and to above 70° in some parts of Algeria and Spain.

Wind in morning strong to a gale from the Westward over our Islands, moderate from South-West on the eastern shores of the North Sea, and from South or South-East over Scandinavia. Light and anticyclonic over the major portion of our area, but very variable over the Mediterranean. Very little change taking place later.

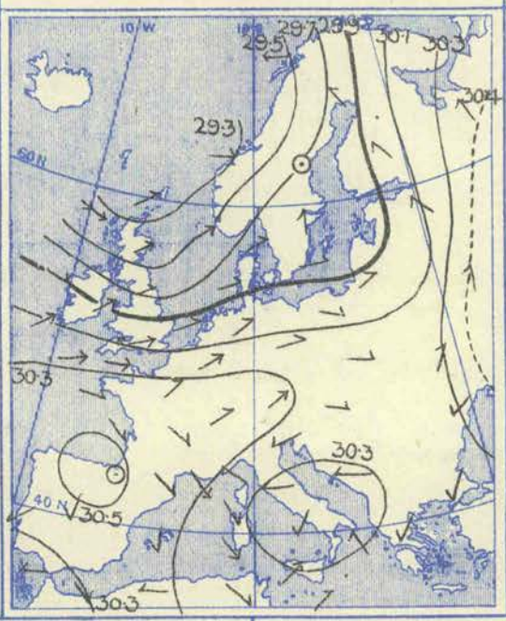
Barometer at 8 a.m. ranging from above 30·4 ins. in an anticyclone over the north of Spain and the adjacent part of the Bay of Biscay, and from above 30·5 ins. in a large system over Russia, to about 29·2 ins. in a depression centred to the northward of the Shetlands. Distribution of pressure remaining almost unchanged throughout the day over the major part of our area, but an irregularly shaped disturbance forming over the Riviera and the north of Italy.

Tuesday, 5th April, 1904.

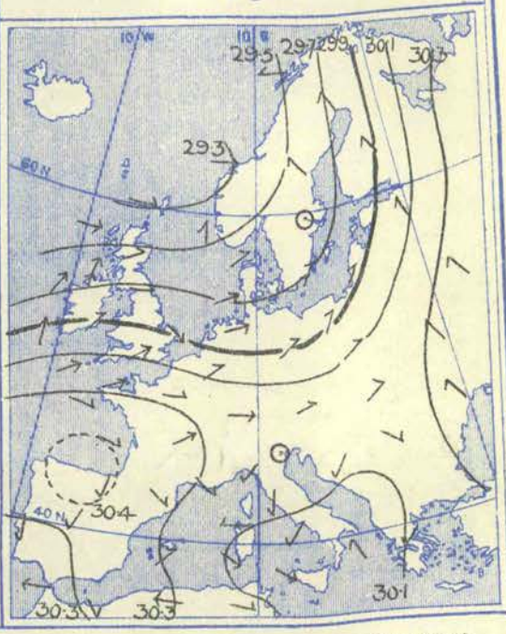
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull very generally, but fine and bright over the Spanish Peninsula and in many parts of Russia. Rain or passing showers prevailing at several British stations, as well as at Rome, on the shores of the Adriatic, and Memel. Snow falling at Helsingfors and Karlstad, and fog prevalent over the Baltic. Rain experienced later over our Islands and most parts of northern Europe, as well as in Italy. Amounts small generally, but 0·5 in. measured at Rome and Wick.

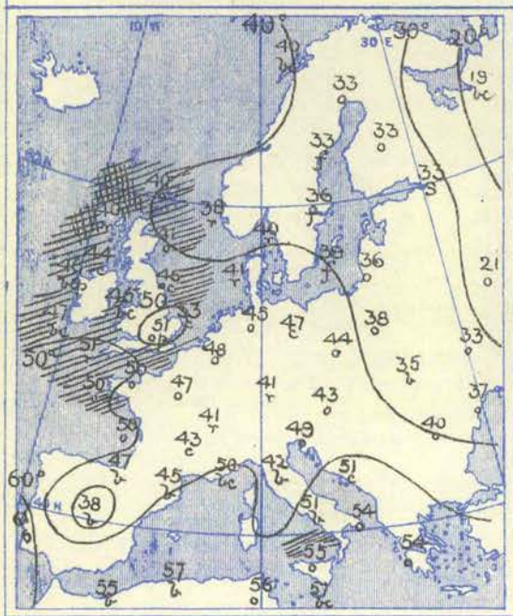
Temperature risen in nearly all places. Readings in morning ranging from 63° at Oporto, 60° at Palma, and 55° at Malta, to about 50° in Ireland, below that value over the greater part of Europe, to below 40° in the north and east, and to below 20° at Archangel. Rising during day to 77° at Lisbon, 75° at Madrid, above 60° in the south generally, and to above 50° at almost all our own stations and in central Europe.

Wind at 8 a.m. fresh to strong from South-West or West over the greater part of our Islands, and blowing a moderate or fresh gale on our extreme north-west coasts. Moderate from the South-Westward over Holland and Denmark, and moderate to strong from between South and South-East over Scandinavia. A complete cyclonic circulation prevailing around Italy; only moderate in force as a whole, but strong to a moderate gale in several places. Wind backing to the Southward along our western coasts by evening and increasing in force; gale force reached at Malin Head by 6 p.m.

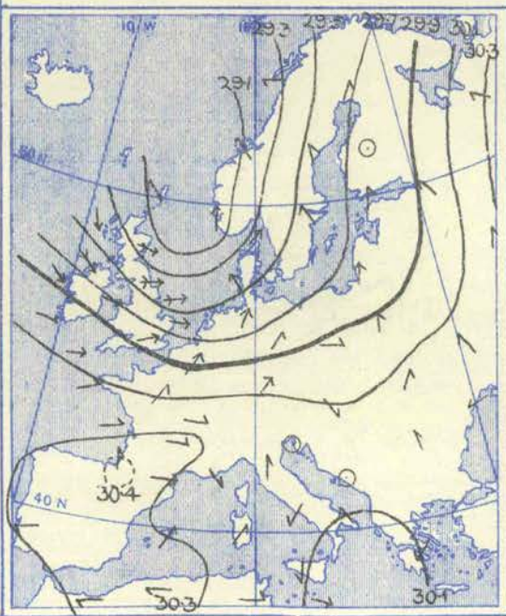
Barometer at 8 a.m. ranging from above 30·4 ins. and upwards in a very extensive anticyclone over Russia, and a little higher in a smaller system having its centre over the north-east of Spain and its vicinity, to less than 30·1 ins. in a large, but not deep, depression over Italy, and to less than 29·3 ins. in a large complex disturbance off the north of Scotland and the west of Norway. Pressure decreasing quickly over our western and northern districts during evening, and a deep depression passing rapidly eastwards over those regions during night.

Wednesday, 6th April, 1904.

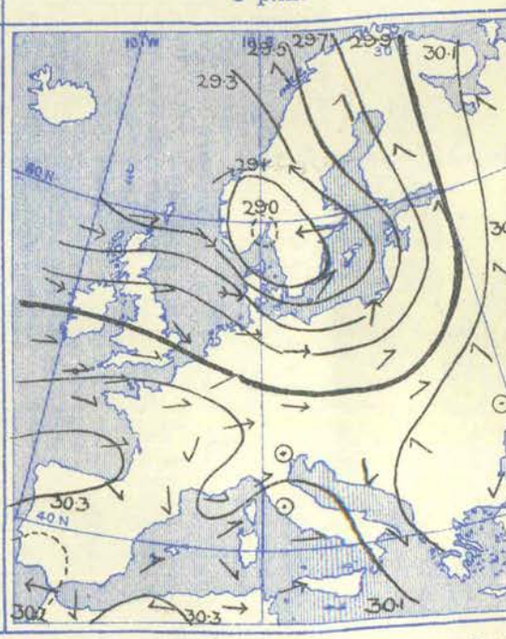
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in many parts of our Islands and southern Europe; cloudy or dull elsewhere. Showery in Scotland, and rainy in Belfort, in the Netherlands, Denmark, and the south of Scandinavia. Much fog prevailing over the Gulf of Bothnia and the Baltic. Heavy rain or snow later in Sweden—0·75 in. at Hernösand—and considerable falls of rain at some of our own northern and north-western stations, and also over France, Germany, and Denmark.

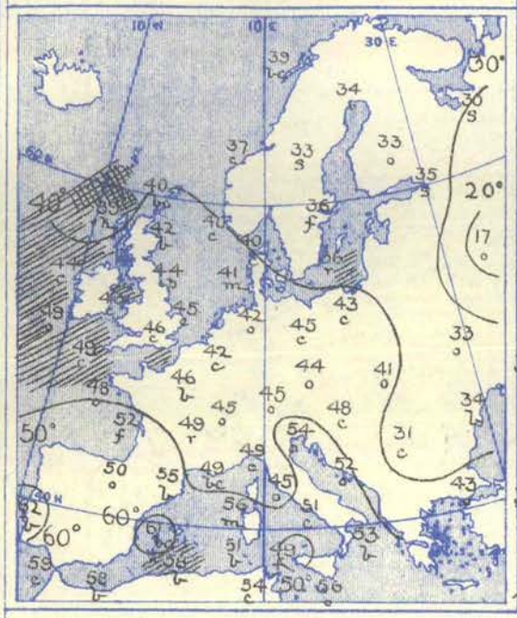
Temperature in morning highest, 62° at Oporto and Palma, 58° at Sanguinaires, and 57° at Algiers and Malta. Lowest, (1) 19° at Archangel, 21° at Moscow, 26° at Kharkov, (2) 36° in the south of Norway, (3) 36° at Limoges, (4) 38° at Madrid. Maxima during day, 79° at Lisbon, 75° at Perpignan, 72° at Sfax, 68° at Oran, 65° at Brindisi, 59° at Biarritz, 58° in London, 57° at Scarborough, and above 50° in most parts of Germany and the United Kingdom.

Wind at 8 a.m. circulating cyclonically around the northern part of the North Sea. North-Westerly to Westerly current very strong over the United Kingdom, and blowing a strong to whole gale along the east coast of Britain. South-Westerly and South-Easterly winds strong to a gale on the Dutch and Danish coasts. Light anticyclonic airs prevailing in the south-western and eastern parts of our area, and a moderate cyclonic movement over the Mediterranean. Gales subsiding on our coasts during day, but continuing in Denmark, and wind increasing to a gale from the Westward and South-Westward over the Baltic.

Barometer at 8 a.m. ranging from about 30·4 ins. in an anticyclone over the south-east of Russia and in a similar system centred over the south-west of France, to less than 30·1 ins. in a shallow depression over the Mediterranean, and to below 29·1 ins. in a large and deep depression over the North Sea. Barometer rising with extraordinary rapidity between 6 a.m. and 8 a.m. on the north-east coast of Great Britain. Vortex depression moving almost due east to Norway

Thursday, 7th April, 1904.

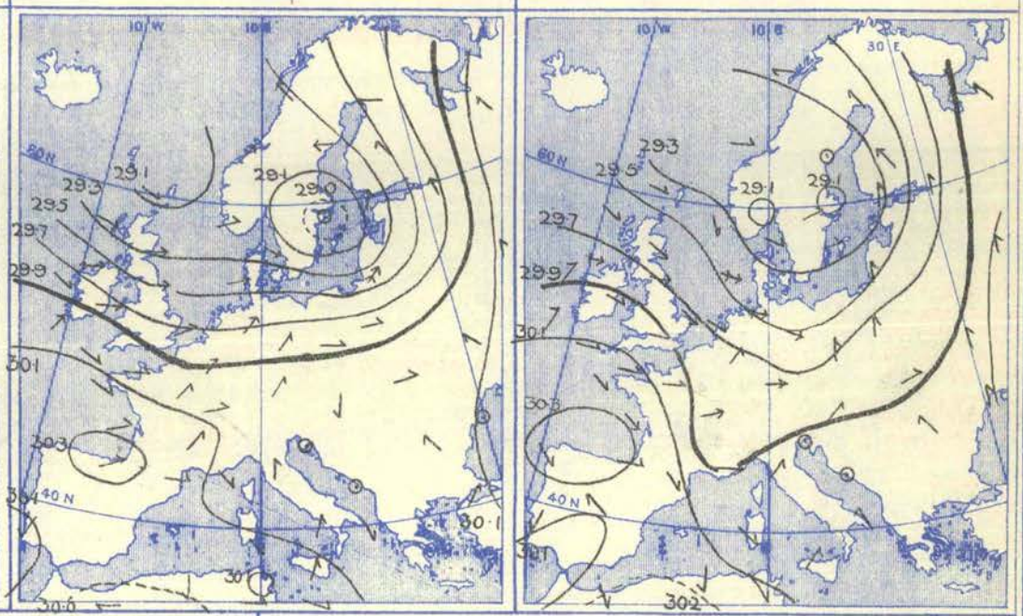
Temperature and Weather. 8 a.m.



Weather at 8 a.m. fine and bright in Algeria, at various stations in southern Europe, and the United Kingdom. Rainy or showery in the north or north-west of our Islands, snow or rain falling in many parts of Scandinavia and northern Russia, and rain at Limoges and Lyons. Rain falling later except in the most southern regions, and heavy snow (0·95 in.) at Hernösand.

Temperature showing no decided change. Readings at 8 a.m. ranging from 62° at Lisbon, 61° at Palma, and 56° at Malta, to below 50° over the greater part of our area, and to below 40° in the north and east. Lowest readings, 30° at Kharkov and Archangel, and 17° at Moscow. Rising later to above 50° in most parts of our Islands, to above 60° in Italy, the south of France, and to above 70° in Algeria and Spain. Highest readings, 77° at San Fernando and 81° at Madrid.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind in morning strong to a gale from the Westward over our Islands, and light or moderate from the same quarter over France and south Germany. A complete cyclonic circulation prevailing over Scandinavia and its neighbourhood; Easterly current strong at Hernösand, and that from West or South-West strong to a gale over the Baltic. Light variable airs prevalent over the Mediterranean. No general or important change later.

Barometer at 8 a.m. ranging from 30·3 ins. and above in the centre of an anticyclone over the north of Spain, and above 30·2 ins. in a larger system over Russia, to about 29·0 ins. in a depression to the northward of the Shetlands, and to 28·9 ins. in another disturbance near Stockholm. Gradients rather steep or steep generally, especially over Russia, Finland, and the Baltic. Depression off our northern coasts moving east-south-eastwards to the south of Norway by evening, and that near Stockholm remaining stationary. Pressure decreasing over Russia.

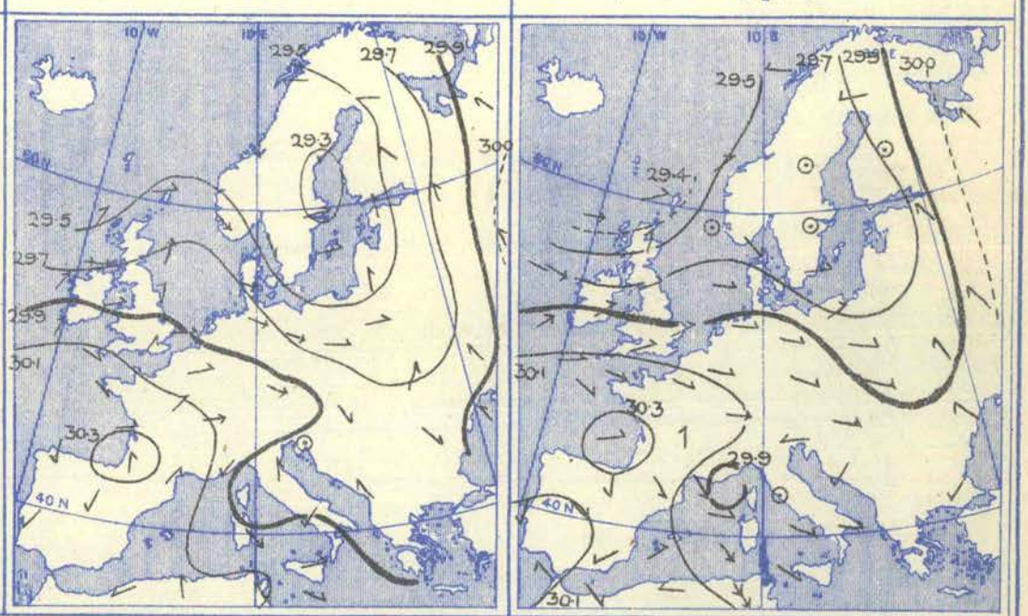
Friday, 8th April, 1904.

Temperature and Weather. 8 a.m.

Weather at 8 a.m. fine and bright over the south-west of France, Portugal, the south of Spain, and in most parts of Algeria; cloudy or overcast over our area generally, with rain in many British and French localities, and rain or snow in various parts of Scandinavia and northern Europe. Snow at Breslau also. Rain falling later in most parts of our Islands, as well as in the northern and central portions of the Continent. Heaviest falls, 0·36 ins. at Sumburgh Head and 0·32 in. at Munich.

Temperature fallen over central Europe. Readings at 8 a.m. ranging from 69° at Oporto and 64° at Algiers, to below 50° over the greater part of our area, to below 40° in the north and east generally, and to below 30° at Moscow and Archangel. Rising during day to 61° at Leith, 64° in London, to 70° or above at a few stations in the south of Europe, to 81° at Lisbon, and 82° at Madrid. Temperature remaining below 50° at several German and at some Austrian stations.

Barometer and Wind. 8 a.m. and 6 p.m.

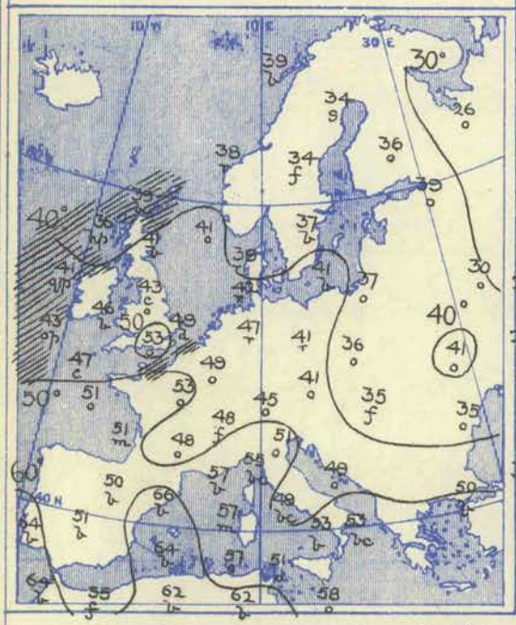


Wind at 8 a.m. anticyclonic over the south-western and extreme eastern portions of our area and light in force. An extensive cyclonic circulation shown over Scandinavia and its neighbourhood, and South-Westerly and Westerly winds, strong to a gale, on our west and north-west coasts. Irregular cyclonic winds of little strength prevailing over Italy. Wind increasing to a moderate to fresh gale from North-West later at Cape Sicié, Cagliari, and Tunis. Force decreasing a little on our own north-west coasts.

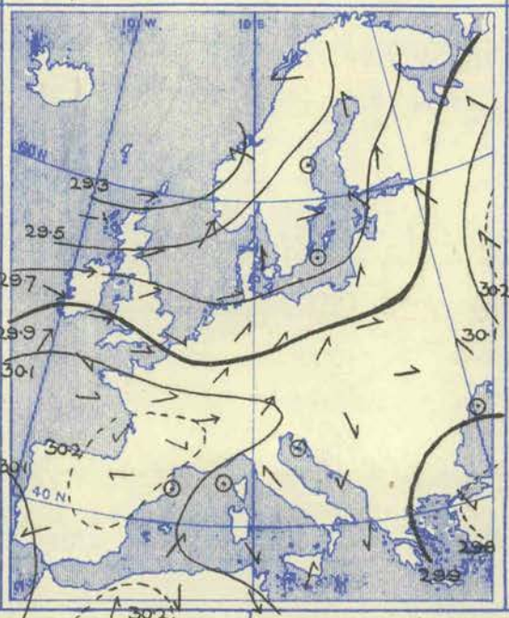
Barometer at 8 a.m. ranging from above 30·3 ins. in an anticyclone centred over the south-west of France and its neighbourhood, and above 30·0 ins. over the eastern half of Russia, to 29·5 ins. at Stornoway, and to less than 29·3 ins. in a disturbance over Sweden. Latter system becoming much less deep by evening, but another depression moving eastwards off the north of Scotland. Changes irregular, but mostly upward over the Mediterranean and Italy.

Saturday, 9th April, 1904.

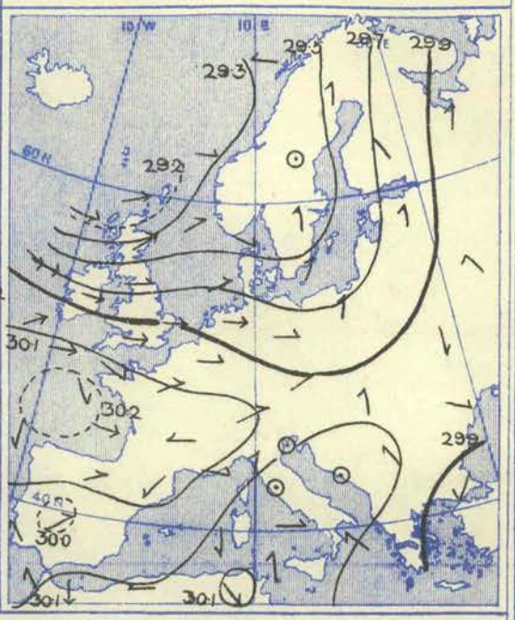
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. showery on our most western and northern coasts, rain or snow falling at Ulleaborg and Haparanda, and rain at Christiansund, and in Denmark and North Germany. Fine in several parts of our Islands and over southern Europe, but cloudy or dull as a whole. Showers experienced later in most parts of the United Kingdom, and precipitation general over the northern half of our area. Largest amounts, 0·4 in. at Stornoway and Swinemünde, and 0·6 in. at Hangö.

Temperature fallen at most of our own stations, risen in most Continental regions. Morning readings highest, 66° at Oporto and Barcelona, 64° at San Fernando, and a little above or below 60° at many other southern stations. Lowest, 26° at Archangel, 30° at Moscow, 34° at several Swedish stations, 36° or 37° in the north of Scotland, and between 40° and 42° in many parts of central Europe. Maxima during day slightly above 80° in Spain, above 70° at several stations on the shores of the Mediterranean, and 70° at Biarritz. Below 50° in many parts of our Islands and at some stations in central Europe. Scarcely any frost at night, even in the extreme north.

Wind Westerly, fresh to a moderate gale, over our Islands. South-Westerly or Southerly on the eastern shores of the North Sea, and Easterly in the north of Norway. Light and rather variable in most other regions. Westerly wind increasing considerably in force over the United Kingdom during day and blowing a fresh to strong gale in the north of Ireland by evening. Little change occurring elsewhere.

Barometer at 8 a.m. ranging from above 30·2 ins. in an anticyclone over the southern and south-western departments of France and the north-east of Spain, and also in another system over central Russia to 29·8 ins. at Constantinople, and to below 29·3 ins. in a large depression off the west of Norway. Russian anticyclone giving way later, and that in the south-west moving more to the northward. Depression in the north spreading out in a southerly direction, and gradients over our Islands consequently becoming much steeper.

IV.—GENERAL NOTES, etc.

The general distribution of pressure over Europe underwent scarcely any change during the whole week, the barometer being highest in an anticyclone over Russia and in another over the Spanish Peninsula or its neighbourhood, and lowest in large, and sometimes deep, depressions which moved in a general easterly direction with their centres over or to the northward of Scotland, and in others of irregular shape and less deep which were observed from time to time over Italy and the Mediterranean. The Southerly and South-Westerly to Westerly winds which under these conditions prevailed over our Islands and their vicinity were usually fresh or strong in force, and often increased to a gale on our north-west and extreme west coasts. The wind was also strong at times and blew gales on more than one occasion on the eastern shores of the North Sea and over the Baltic. The circulation of the wind around the southern depressions was not as a rule of any great strength, but slight gales were felt occasionally. Precipitation was very frequent over the north-western half of our area but rarely heavy except in north-west Scotland; at Hernösand, however, two heavy falls of snow occurred on successive days. Both over eastern and south-western Europe the weather was dry, but in Italy and the neighbouring Islands rain was experienced on several occasions, and sometimes in considerable quantities. Temperature showed an upward tendency in nearly all countries, some of the maximum readings in southern Europe being above 80°, and those in the most northern and north-eastern regions frequently above 40°.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 80.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	34·9	+ 3·1	37	+ 3
STRATHPEFFER SPA	21·8	− 7·9	23	− 8
EDINBURGH	35·0	+ 8·4	38	+ 9
COCKLE PARK	46·7	—	50	—
NEWCASTLE-ON-TYNE	40·0	—	43	—
YORK	36·9	+ 8·0	40	+ 9
SKEGNESS	41·2	—	45	—
CROMER	44·2	—	48	—
LOWESTOFT	33·5	—	36	—
DUNMOW	38·2	—	42	—
SHEFFIELD	47·3	—	51	—
WORKSOP	41·3	+ 13·5	45	+ 15
THURCASTON	45·2	+ 16·2	49	+ 18
MARGATE	29·0	− 4·5	32	− 5
BROADSTAIRS	33·5	—	36	—
RAMSGATE	31·4	—	34	—
EASTBOURNE	35·4	− 2·0	39	− 2
BRIGHTON	32·1	− 4·9	35	− 5
WORTHING	33·8	—	37	—
BOGNOR	33·2†	—	36†	—
WESTBOURNE	37·4†	− 1·8	41†	− 2
VENTNOR HOSPITAL	36·2	− 3·9	39	− 4
BOURNEMOUTH	40·4	—	44	—
MARLBOROUGH	33·8	+ 3·2	37	+ 3
SOUTHPORT	37·3	—	41	—
RHYL	36·3	—	40	—
ABERDOVEY	36·3†	—	40†	—
TENBY	33·4	− 6·5	36	− 7
TORQUAY	43·0	+ 4·2	47	+ 5
NEWQUAY	31·3	− 6·7	34	− 7
GUERNSEY	36·1†	− 6·1	39†	− 7

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values below must be substituted for those which have already appeared.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Twenty Seventh Year No. 2 p. 8.	Lairg	—	—	—	—	—	—	—	—	7	—	—	—	—	—	—
" " " "	Shaftesbury	—	—	44·9	—	40·3	+ 3·0	8	27	—	—	—	—	—	—	—
" " " "	Cullompton	—	32	—	36·9	42·6	+ 2·9	26	14	—	—	—	—	—	—	—
" " " "	Donaghadee	—	—	—	—	—	—	—	—	—	0·76	+ 0·13	—	—	—	—
" " " "	Valencia	—	—	—	—	—	—	—	—	7	1·65	+ 0·27	—	—	—	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 15. FIFTEENTH WEEK, ENDING SATURDAY, APRIL 16TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 86.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	57	31	50·8	38·9	44·6	2 above	31	+ 7	9	- 10	117	- 42	442	- 44
	1. SCOTLAND, EAST	59	30	52·1	37·5	44·4	1 above	36	+ 5	13	- 6	130	- 80	546	+ 10
	2. ENGLAND, N.E.	63	29	54·0	39·4	46·4	2 above	42	+13	7	- 7	170	- 49	422	- 32
	3. ENGLAND, EAST	68	35	56·6	41·5	48·7	3 above	49	+10	1	- 14	202	- 72	397	-102
	4. MIDLAND COUNTIES	65	31	55·5	39·5	47·1	2 above	46	+ 5	7	- 9	202	- 94	456	- 46
	5. ENGLAND, SOUTH	69	33	56·6	42·1	49·0	3 above	49	+ 6	0	- 9	236	- 83	340	- 38
Principal Grazing Districts.	6. SCOTLAND, WEST	59	35	52·0	41·3	46·4	2 above	34	+ 1	2	- 11	169	- 57	361	- 24
	7. ENGLAND, N.W.	62	34	53·5	40·4	46·6	1 above	39	+ 5	4	- 7	158	- 82	384	+ 11
	8. ENGLAND, S.W.	61	32	53·8	41·5	47·4	1 above	40	0	1	- 6	300	- 39	252	- 39
	9. IRELAND, NORTH	59	32	52·3	41·1	46·4	1 above	35	- 2	3	- 7	205	- 92	329	- 4
	10. IRELAND, SOUTH	61	30	53·0	41·3	46·9	0 (average)	37	- 6	2	- 5	319	- 73	228	- 14
	— CHANNEL ISLANDS	60	38	55·4	44·5	49·7	1 above	54	+ 9	0	- 1	408	- 27	80	- 39

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 86.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	7	0 (average)	74	+ 6	16·7	+ 1·8	30	- 2	31	- 2	220	- 32	21	- 3
	1. SCOTLAND, EAST	4	5	1 more	66	+10	8·9	+ 0·8	34	+ 2	35	+ 2	253	- 37	24	- 3
	2. ENGLAND, N.E.	4	5	1 more	63	+10	6·3	+ 0·3	36	+ 3	37	+ 3	254	- 56	23	- 5
	3. ENGLAND, EAST	3	3	1 less	61	+ 7	6·6	+ 0·9	42	+ 3	44	+ 3	293	- 51	27	- 5
	4. MIDLAND COUNTIES	4	6	2 more	70	+20	8·6	+ 1·8	34	+ 2	35	+ 3	241	- 42	22	- 4
	5. ENGLAND, SOUTH	4	5	1 more	68	+17	9·8*	+ 2·4	43	+ 7	46	+ 7	289	- 37	26	- 3
Principal Grazing Districts.	6. SCOTLAND, WEST	4	5	1 less	68	+ 9	16·4	+ 2·0	31	- 3	32	- 3	226	- 66	21	- 6
	7. ENGLAND, N.W.	4	4	1 less	67	+12	10·8	+ 2·3	34	+ 3	35	+ 3	240	- 42	22	- 4
	8. ENGLAND, S.W.	4	5	0 (average)	71	+14	13·3	+ 2·8	45	+ 6	47	+ 7	285	- 66	26	- 6
	9. IRELAND, NORTH	5	4	1 less	79	+13	12·1	+ 2·7	38	+ 5	40	+ 5	237	- 54	22	- 5
	10. IRELAND, SOUTH	4	5	2 less	77	+16	14·3	+ 2·7	31	- 5	32	- 6	254	- 79	23	- 7
	— CHANNEL ISLANDS	3	8	3 more	76	+14	14·0	+ 4·9	53	+10	56	+10	355	- 46	32	- 4

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather was of a rather changeable character, with occasional rain in all parts of the country. Thunderstorms occurred in the south and east of England on Tuesday or Wednesday.

Temperature was above the mean in all districts excepting Ireland S., the excess being generally slight, but amounting to as much as 3° in England S. and E. The highest readings were registered during the latter part of the week—mostly on Thursday at the southern stations, but on Saturday in the north. In all the English districts and in Ireland S. the thermometer exceeded 60°, and in England S. and E. it exceeded 65°, the highest readings reported being 69° in London and 68° at Geldeston. The lowest temperatures were recorded during the earlier half of the week, when the thermometer fell to 32° or less in many parts of the Kingdom, and to 29° in England N.E. (at Alnwick Castle). On Thursday night the thermometer at some of our southern and south-eastern stations did not sink as low as 50°, and in London it did not fall below 53°.

Rainfall differed but little from the mean, being slightly in excess in most of the Wheat Producing districts, but less than the normal in the Grazing districts. At Jersey and in some parts of Ireland S. there was, however, a considerable excess.

Bright Sunshine was in excess of the mean in all districts excepting the south of Ireland and the west and north of Scotland. The percentage of the possible duration ranged from 56 in the Channel Islands, 47 in England S.W., and 46 in England S., to 32 in Scotland W. and Ireland S., and to 31 in Scotland N.

Barometer and Wind.—At the commencement of the week the southern parts of the Kingdom were under the influence of a large anticyclone having its central area over the Bay of Biscay, while the northern districts were affected by a deep depression which travelled quickly eastwards past the north of Scotland. Westerly to North-Westerly winds of considerable strength were therefore general, and on many parts of our northern coasts they blew with the force of a gale. As the depression passed away the southern anticyclone extended temporarily over the greater part of the Kingdom, and the wind consequently fell light, its direction being rather variable over England. The anticyclone soon moved away, however, to the Continent, and on Tuesday and Wednesday a large depression extended gradually from the Atlantic over nearly the whole of western Europe, the wind in the meantime increasing in force from South and South-East, and blowing a slight gale on many parts of our coasts. Later on the centre of the disturbance moved away in a north-westerly direction, but numerous secondary systems, which were originally developed over France and the Bay of Biscay, advanced northwards over Great Britain, and caused light variable winds in most districts. At the close of the week these small depressions were all passing away to the northward or north-eastward, and a new anticyclone was extending over us from the south-westward, the wind being generally from some Westerly quarter (South-West to North-West).

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II.—DATA from which the SUMMARY on page 85 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	49	34	46·6	38·4	42·3	+ 1·0	17	10	5	0·83	+ 0·36	*	*	*	*
	Stornoway	55	34	50·9	38·7	44·5	+ 1·7	31	9	5	0·45	− 0·15	40·3	+ 4·6	41	+ 5
	Wick	55	32	49·6	38·7	43·9	+ 1·0	27	9	5	0·56	+ 0·17	*	*	*	*
	Lairg ℌ	57	31	53·0	36·0	44·1	+ 2·6	40	17	4	0·55	− 0·01	*	*	*	*
	Glencarron ℌ	55	36	50·4	38·9	44·4	+ 2·1	30	9	5	1·19	+ 0·12	*	*	*	*
	Fort Augustus ℌ	54	37	52·6	39·6	45·8	+ 1·7	37	7	4	0·43	− 0·08	21·8	− 4·6	22	− 5
	Fort William	55	39	52·3	42·0	46·9	+ 2·4	34	0	5	0·70	− 0·18	18·0	− 13·5	19	− 14
1. SCOTLAND, E.	Nairn	58	33	54·1	36·0	44·6	+ 1·0	43	17	3	0·27	− 0·04	*	*	*	*
	Aberdeen	58	35	50·9	39·1	44·7	+ 1·1	31	8	4	0·79	+ 0·32	36·7	+ 1·5	37	+ 2
	Braemar ℌ	51	33	46·9	35·9	41·1	+ 0·7	14	23	4	0·60	+ 0·08	*	*	*	*
	Ochtertyre ℌ	59	33	53·3	38·1	45·3	+ 1·1	39	11	5	0·87	+ 0·34	*	*	*	*
	Leith	59	34	54·6	39·6	46·7	+ 2·1	43	7	3	0·14	− 0·19	*	*	*	*
	Marchmont ℌ	57	30	52·6	36·1	44·0	+ 1·3	39	17	3	0·53	0·00	42·0	+ 9·7	43	+ 10
2. ENGLAND, N.E.	Alnwick Castle	57	29	52·8	35·9	43·9	+ 1·2	39	17	5	0·56	+ 0·09	*	*	*	*
	Durham	57	32	53·4	38·0	45·3	+ 1·8	40	11	4	0·57	+ 0·13	36·4	+ 7·1	38	+ 7
	Shields	57	36	53·3	39·6	46·1	+ 2·6	39	7	3	0·54	+ 0·17	*	*	*	*
	Scarborough ℳ	58	36	54·0	40·1	46·7	+ 2·5	41	5	5	0·49	+ 0·09	33·4	—	35	—
	Spurn Head	63	38	53·7	42·1	47·6	+ 3·3	39	0	4	0·16	− 0·15	*	*	*	*
	Lincoln	62	37	56·9	40·9	48·5	+ 3·2	50	3	4	0·46	+ 0·09	*	*	*	*
	Fulbeck (Lincolnshire)	—	—	—	—	—	—	—	—	3	0·48	+ 0·11	40·1	—	42	—
3. ENGLAND, E.	Hillington ℳ	64	35	58·1	40·0	48·6	+ 3·2	55	6	2	0·36	− 0·03	35·2	+ 0·1	37	0
	Yarmouth	63	37	53·9	42·4	47·9	+ 3·7	41	0	3	0·26	− 0·12	*	*	*	*
	Geldeston	68	36	59·1	40·5	49·4	+ 4·2	58	4	3	0·22	− 0·13	35·4	− 1·6	37	− 2
	Cambridge	65	35	58·2	40·7	49·0	+ 2·7	54	4	4	0·22	− 0·13	39·0	+ 2·8	41	+ 3
	Felixstowe	59	37	54·2	43·0	48·3	+ 2·4	44	0	2	0·36	—	45·2†	—	48†	—
	Clacton-on-Sea	57	38	54·7	42·9	48·5	+ 2·4	46	0	3	0·28	—	52·8†	—	56†	—
	Rothamsted	64	35	56·9	40·4	48·3	+ 3·2	51	4	3	0·39	− 0·05				
	Shoeburyness	60	37	57·3	42·3	49·4	+ 2·7	52	0	2	0·28	− 0·02	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	57	33	52·6	38·5	45·2	+ 1·7	37	10	4	0·79	+ 0·30	26·7	—	28	—
	Bawtry (Hesley Hall)	60	—	?56·9	—	—	—	—	—	4	?0·66	+ 0·28	*	*	*	*
	Nottingham	61	37	56 3	40·7	48·1	+ 2·2	48	4	4	0·70	+ 0·32	36·6	—	38	—
	Colly Weston (Stamford)	65	33	57·1	40·1	48·2	+ 2·3	51	5	4	0·50	+ 0·13	*	*	*	*
	Cheadle ℳ	58	33	53·0	37·9	45·1	+ 0·8	39	11	4	0·87	+ 0·40	*	*	*	*
	Birmingham (Edgbaston)	60	35	54·9	40·5	47·4	+ 2·5	44	4	4	0·74	+ 0·30	35·9	—	38	—
	Shrewsbury	62	34	55·6	38·8	46·8	+ 1·1	47	9	4	0·26	—	*	*	*	*
	Hereford ℳ	62	34	56·7	39·4	47·6	+ 1·6	50	7	4	0·64	+ 0·27	*	*	*	*
	Cirencester	61	31	55·2	37·3	45·8	+ 1·2	46	13	4	0·58	+ 0·13	40·3	+ 4·6	42	+ 5
	Oxford	64	35	57·7	42·4	49·7	+ 3·4	54	0	3	0·44	+ 0·07	38·1	+ 3·7	40	+ 4
5. ENGLAND, S.	London	69	36	60·1	43·1	51·2	+ 3·9	64	0	3	0·35	− 0·03	37·1‡	+ 8·2‡	39‡	+ 9‡
	Wisley	66	36	58·6	42·0	49·9	+ 2·4	55	0	4	0·49	—	43·7	—	46	—
	Swarraton (Alresford) ℳ	64	33	56·8	40·0	48·0	+ 3·1	50	6	4	0·86	+ 0·42	*	*	*	*
	Tunbridge Wells ℳ	66	35	58·5	42·0	49·9	+ 3·8	55	0	3	0·32	—	44·3	—	47	—
	Dungeness	61	34	55·7	42·4	48·7	+ 3·0	47	0	3	0·26	− 0·04	42·3	—	45	—
	Hastings (St. Leonards)	62	37	55·6	42·4	48·7	+ 2·4	47	0	3	0·32	− 0·11	40·8	+ 0·9	43	+ 1
	Southampton	63	36	58·4	42·9	50·3	+ 2·7	58	0	4	0·82	+ 0·38	48·4	+ 9·9	51	+ 10
	Portland Bill	54	41	52·0	43·7	47·7	0·0	40	0	4	0·68	—	*	*	*	*
	Shaftesbury ℳ	58	35	53·6	40·6	46·8	+ 1·5	39	4	4	0·56	0·00	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	55	38	51·6	42·9	47·0	+ 1·7	35	0	7	1·04	+ 0·13	*	*	*	*
	Glasgow	55	38	51·5	41·1	46·1	+ 1·8	32	3	5	0·29	− 0·19	21·1	− 7·9	22	− 8
	Cally ℌ	58	38	52·5	41·0	46·5	+ 1·8	36	3	4	0·54	− 0·08	*	*	*	*
	Aspatria	59	35	53·0	39·7	46·0	+ 1·8	38	6	2	0·37	—	28·7	—	30	—
	Douglas (Isle of Man)	55	39	51·3	42·0	46·4	+ 1·4	31	0	3	0·40	− 0·16	42·7	+ 1·7	45	+ 2
7. ENGLAND, N.W.	Newton Rigg	55	35	50·5	38·5	44·2	+ 1·1	30	10	4	0·43	—	25·4	—	27	—
	Stonyhurst	57	37	51·6	40·3	45·7	+ 1·0	33	5	4	0·62	+ 0·06	36·5	+ 3·2	38	+ 3
	Blackpool ℳ	59	36	53·7	38·7	45·8	+ 0·4	40	9	3	0·61	+ 0·21	36·3	+ 2·3	38	+ 2
	Manchester (Prestwich)	58	37	53·1	40·1	46·3	+ 1·2	38	5	4	0·52	+ 0·07	29·9	—	31	—
	Liverpool Obsy. (Bidston)	59	37	54·1	41·4	47·5	+ 1·3	41	2	5	0·19	− 0·17	34·9	—	36	—
	Chester (Hawarden Bridge)	61	39	55·5	41·4	48·1	+ 1·2	45	2	1	0·09	—	*	*	*	*
	Llandudno ℳ	62	39	55·0	42·1	48·2	+ 1·5	43	0	3	0·20	− 0·20	37·5	+ 2·5	39	+ 3
	Holyhead	61	39	53·3	41·9	47·3	+ 0·9	38	0	3	0·26	− 0·18	*	*	*	*
	Bettws-y-Coed	61	34	54·8	39·4	46·7	+ 0·4	44	7	5	0·57	—	28·5	—	30	—
8. ENGLAND, S.W.	Pembroke	54	42	49·9	43·9	46·8	+ 0·8	34	0	4	0·39	− 0·05	49·1	+ 8·1	52	+ 9
	Clifton	61	37	55·4	42·8	48·8	+ 2·5	48	0	3	0·79	+ 0·29	*	*	*	*
	Bath	60	35	55·9	40·9	48·0	+ 1·0	47	3	4	0·60	+ 0·13	38·9	—	41	—
	Arlington (N. Devon)	58	34	53·0	39·1	45·7	+ 1·0	38	8	3	0·44	− 0·24	*	*	*	*
	Cullompton ℳ	60	32	56·1	39·3	47·3	0·0	48	8	3	0·50	− 0·05	39·4	+ 3·8	42	+ 4
	Falmouth	55	39	53·2	42·9	47·8	+ 0·4	41	0	6	0·38	− 0·29	49·2	+ 7·7	52	+ 8
	Plymouth	56	34	53·0	41·9	47·2	− 0·6	37	0	3	0·64	+ 0·10	43·2	+ 3·7	45	+ 4
9. IRELAND N.	Malin Head	57	34	51·6	39·7	45·4	− 0·1	33	6	4	0·20	− 0·23	*	*	*	*
	Edenfel (Omagh)	57	32	53·3	40·0	46·3	+ 2·0	39	6	4	0·19	− 0·34	*	*	*	*
	Blacksod Point	52	40	50·0	42·7	46·2	− 0·6	29	0	6	0·97	+ 0·30	*	*	*	*
	Markree Castle	57	39	53·0	41·7	47·1	+ 1·7	37	1	5	0·59	+ 0·03	35·4	+ 2·0	37	+ 2
	Armagh	59	36	54·0	41·2	47·3	+ 2·3	40	2	4	0·11	− 0·37	40·6	+ 8·3	42	+ 9
	Donaghadee	54	36	51·9	41·0	46·2	+ 0·8	34	3	5	0·31	− 0·13	*	*	*	*
10. IRELAND, S.	Dublin	60	38	55·8	42·8	49·0	+ 1·8	49	0	3	0·07	− 0·39	42·9	+ 5·6	45	+ 6
	Birr Castle	57	35	53·6	39·7	46·3	+ 0·2	40	6	4	0·22	− 0·28	31·9	− 2·7	33	− 3
	Kilkenny	56	30	52·6	39·4	45·7	− 1·0	37	7	3	0·17	− 0·35	*	*	*	*
	Waterford	58	32	53·3	40·9	46·8	+ 0·7	38	3	2	0·17	− 0·44	*	*	*	*
	Roche's Point	57	35	51·6	42·1	46·6	− 1·1	32	0	3	0·17	− 0·56	*	*	*	*
	Valencia	53	40	51·4	43·1	47·1	− 1·1	36	0	7	1·44	+ 0·56	18·5	− 19·0	20	− 20
	Killarney	61	38	53·1	42·3	47·4	+ 0·3	38	0	7	0·97	+ 0·18	*	*	*	*
	Foynes	55	37	52·5	40·4	46·2	− 0·6	36	4	2	0·41	− 0·17	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	41	54·0	43·4	48·5	+ 0·1	46	0	2	0·28	− 0·22	56·3	+ 15·1	59	+ 16
	Jersey	60	38	56·7	45·6	50·9	+ 2·1	62	0	4	1·34	+ 0·89	48·0	+ 3·4	51	+ 4

Stations Marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

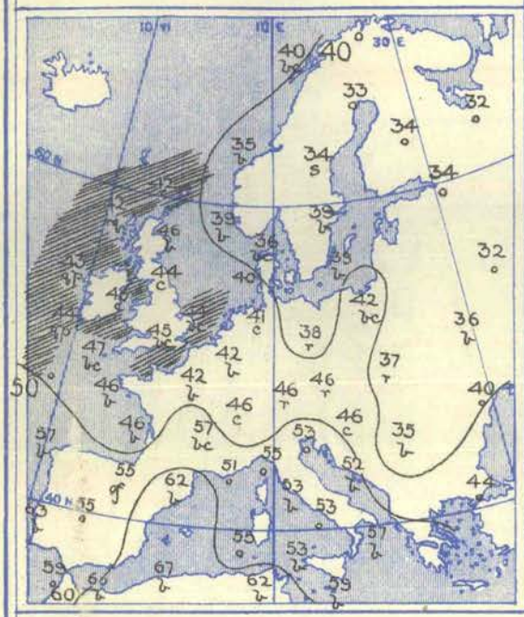
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 10th April, 1904.

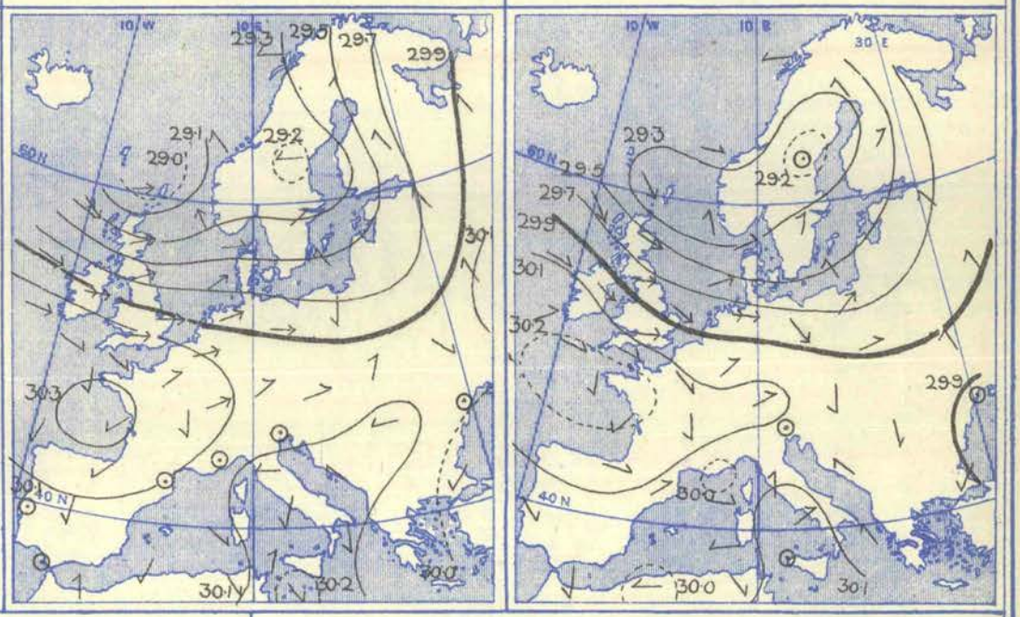
Temperature and Weather. 8 a.m.



Weather at 8 a.m. showery and rough on our most northern and western coasts, rainy over Denmark, Germany, Bohemia, and Poland, and snow or rain falling at Hernösand and over the Gulf of Finland. Fine and bright in most parts of our Islands, Norway, the south of Sweden, and southern Europe. Half an inch of rain falling at Sumburgh Head later, and smaller quantities in Ireland, Scotland, and many parts of central and northern Europe.

Temperature changed irregularly. Morning readings ranging from 67° at Algiers, 65° at Oporto, and about 60° or a little lower in the south generally, to below 50° over our Islands and the greater part of Europe, and to below 40° at Nairn, and in the east and north-east of our area. Lowest value, 32° at Moscow and Archangel. Rising subsequently to above 50° over the major portion of central Europe and the United Kingdom, to above 60° in the south, and to above 70° in places. Highest readings, 75° at Perpignan and Cette, and 79° at Algiers.

Barometer and Wind. 8 a.m. and 6 p.m.

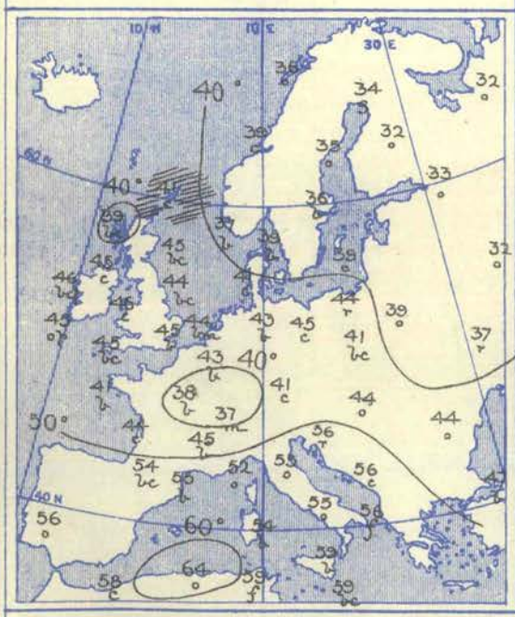


Wind at 8 a.m. strong to a gale from West or North-West over the United Kingdom, strong from South-West in Denmark, and moderate to fresh or strong from between South-South-West, and East over Scandinavia. Light anticyclonic winds prevailing over south-western and southern Europe. Increasing to a gale from West over North Germany, and strong winds or gales continuing over these Islands.

Barometer at 8 a.m. ranging from above 30·3 ins. in an anticyclone over the Bay of Biscay, and above 30·1 ins. over Italy and its neighbourhood and in the east of Russia, to below 29·2 ins. in a minimum near Hernösand, and to less than 29·0 ins. in a large and deep disturbance having its centre north of the Shetlands. Latter system apparently travelling eastwards and becoming much less deep later. Pressure increasing briskly over Scotland and its immediate neighbourhood, decreasing in most other regions. Anticyclone giving way somewhat—especially on its southern side.

Monday, 11th April, 1904.

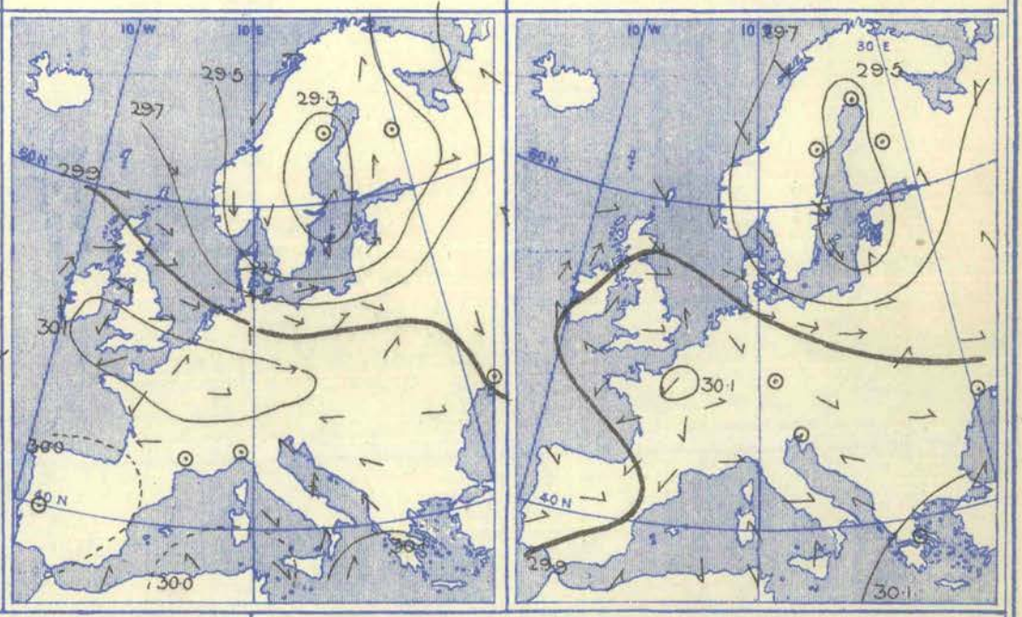
Temperature and Weather. 8 a.m.



Weather at 8 a.m. fine and bright in the south of Scandinavia and over the major portion of the United Kingdom and France. Cloudy or overcast in most other regions, with snow at Haparanda, rain at Kiev, in North Germany, and Denmark, and passing showers of hail or rain on our extreme western and northern coasts. Very little precipitation later in any part of our area, excepting at a few Norwegian and German stations. A thunderstorm yielding 0·16 in. of rain at Algiers.

Temperature not changed much as a whole, but rather lower in most places. Morning readings highest, 64° at Algiers, 62° at Oran, 61° at Sfax, and a little less in the extreme south generally. Lowest, 32° at Moscow, Archangel, and Kuopio, below 40° over northern Europe generally and in the Hebrides, at Paris and Belfort, and below 45° in most parts of our Islands and central Europe. Rising during day to 59° in London, above 70° in the south of France and in various parts of Spain, Italy, and Algeria. Highest values, 77° at Madrid and 90° at San Fernando.

Barometer and Wind. 8 a.m. and 6 p.m.

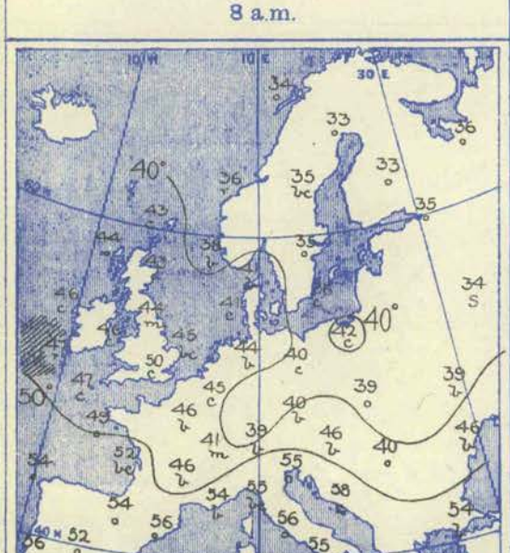


Wind at 8 a.m. showing an extensive cyclonic circulation over Scandinavia and the northern countries; little force generally, but Northerly current strong at Skudesnaes, and that from West or South-West blowing a fresh to moderate gale over Denmark and the Baltic. Light anticyclonic airs prevalent over southern Europe and France. Wind increasing to a fresh or strong breeze from the Southward in Ireland by evening. Little other change.

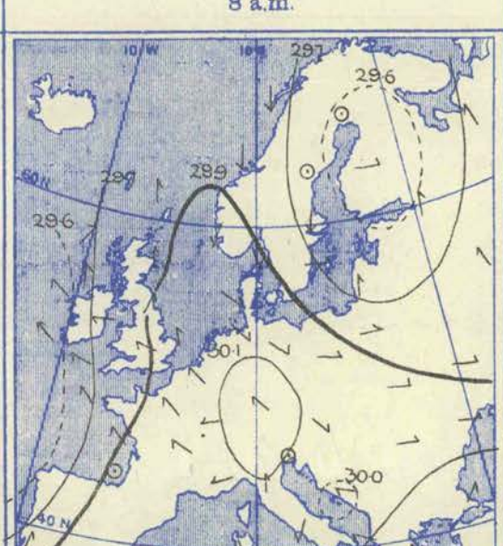
Barometer at 8 a.m. ranging from above 30·1 ins. in an elongated anticyclone extending from the south of Ireland to the south-west of Austria, to below 29·3 ins. in a depression over Sweden. Anticyclone decreasing in intensity and moving eastwards later, and barometer falling rather decidedly both in the west of France and the west of Ireland. Swedish depression becoming less deep and travelling eastwards.

Tuesday, 12th April, 1904.

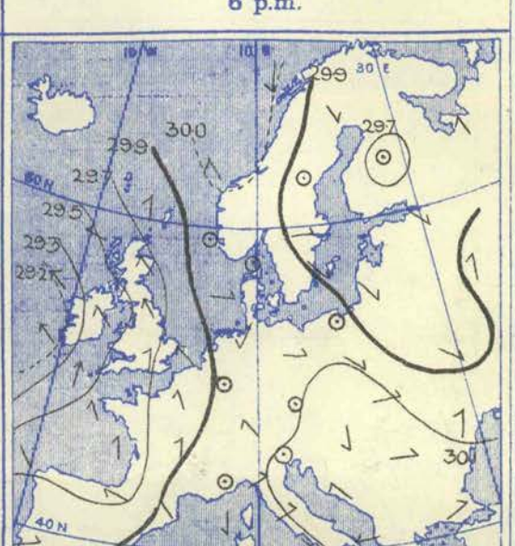
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in several parts of Italy, France, and the south of Russia; cloudy or dull over our area as a whole. Rain falling at Christiansund and in the south-west of Ireland. Rain experienced later in most Irish and English districts, and thunderstorms occurring during night over the south-eastern counties and in London. Some rain and thunderstorms also taking place in the north of France. Heaviest rain, 0·6 in. at Valencia (Ireland) and 0·7 in. at Paris.

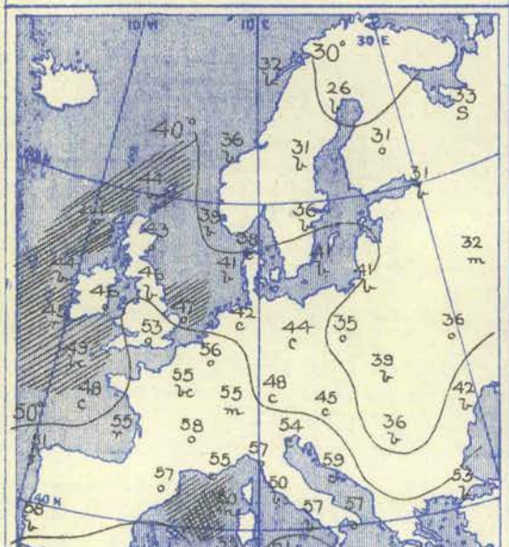
Temperature risen in most regions, but fallen at some southern and central stations. Morning readings highest, 63° at Malta, 62° at Algiers, and 60° at San Fernando. Lowest, 33° in Finland, 34° at Moscow and Bodö, and below 40° over Russia and Scandinavia generally. Rising later to 60° or a little higher in some parts of England, Belgium, and central Europe, and to 70° or above in Algeria and at several stations in southern Europe. Highest values, 80° at Clermont and 82° at Sfax.

Wind in morning South-Easterly and Southerly over the United Kingdom and the south-western portion of the Continent; moderate generally, but fresh or strong in the far west. Light anticyclonic airs prevailing over the central countries, and a cyclonic circulation of light to fresh winds over the northern regions. South-Easterly current increasing in force later, and blowing a slight gale on the coasts of Ireland.

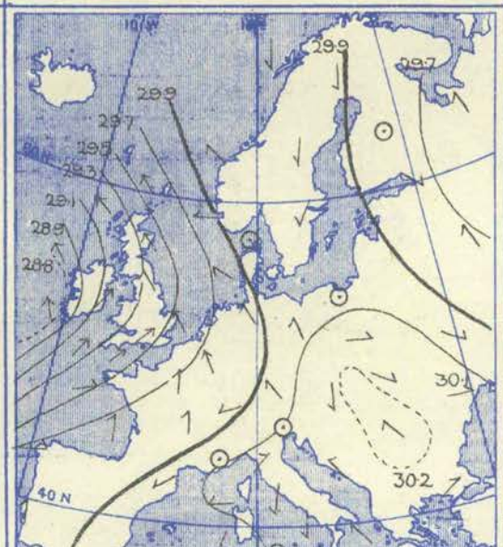
Barometer at 8 a.m. ranging from 30·1 ins. and upwards in a feeble anticyclone over central Europe, to less than 29·6 ins. (1) in a large shallow depression centred over Finland, and (2) also on the Atlantic shores of Portugal and Ireland. Barometer falling briskly in the west later, and gradients becoming much steeper. A depression approaching Ireland, and secondary systems forming over the Bay of Biscay. Anticyclone moving eastwards.

Wednesday, 13th April, 1904.

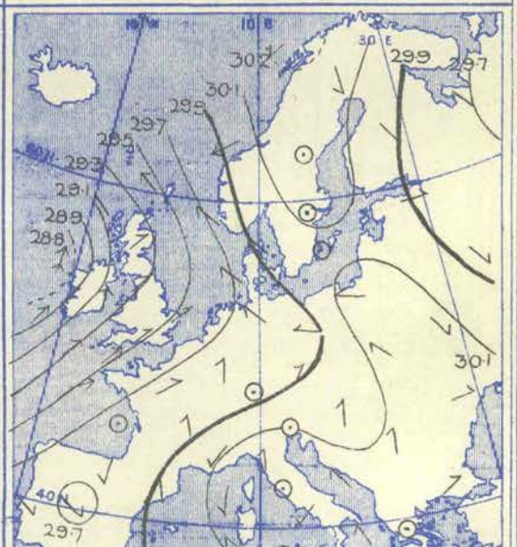
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in nearly all parts of Scandinavia, Denmark, on the north coast of Germany, and in Italy, but cloudy or overcast over our area as a whole. Rainy in the west and north of Ireland, in the west of France, at Jersey, and on the north-east coast of England. Rain falling during the ensuing twenty-four hours in almost all parts of our Islands, many French districts, and at a few stations in northern Europe. A thunderstorm occurring at Biarritz.

Temperature risen over Algeria, France, and Great Britain, fallen in most other regions. Readings at 8 a.m. highest, 69° at Oran, 63° at Malta, and 60° at Barcelona and Sanguinaires. Lowest, 26° at Haparanda, below 40° in nearly all parts of Russia and over Scandinavia, as well as in some Polish and German localities. Rising subsequently to 63° at Spurn Head, about 70° at several French, German, and Italian stations, and also in Greece and Spain. Highest values, 84° at Algiers and 95° at Oran.

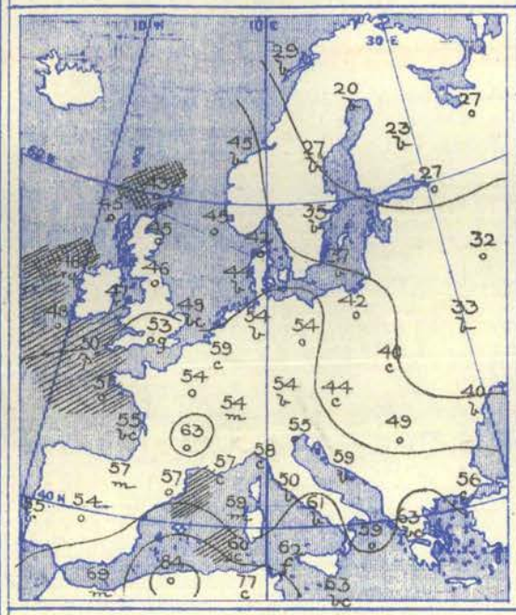
Wind in morning strong to moderate from South-West or South over France, fresh or strong to a moderate gale from South or South-East over the United Kingdom, and strong from South-East on the eastern shores of the North Sea. Very light and variable airs prevailing over the Mediterranean, and light North-Westerly winds over Russia. No general change later, but blowing a strong gale from South at Blacksod Point.

Barometer at 8 a.m. highest, above 30·2 ins. in an anticyclone over south-eastern Europe, and above 30·0 ins. in a band of relatively high readings extending thence across Scandinavia. Lowest, less than 28·8 ins. in a deep depression lying off the west of Ireland; no higher than 29·65 ins. at Archangel and 29·71 ins. at Moscow. Pressure increasing later in most parts of our area, but a depression appearing over central Spain. Disturbance off Ireland apparently receding again.

Thursday, 14th April, 1904.

Temperature and Weather.

8 a.m.

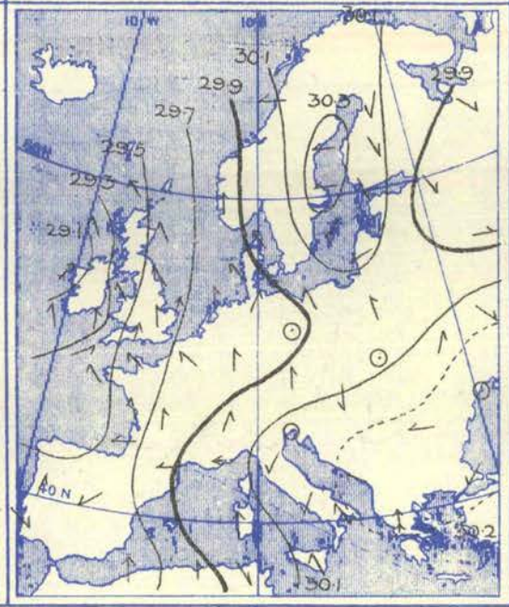


Weather at 8 a.m. fine and bright in many parts of Greece, Italy, Scandinavia, Finland, and at a few of our own stations; cloudy or overcast over Europe as a whole, with rain on our western coasts, and at Bath and Portland, as well as at Lisbon and Copenhagen. Rain experienced later in most parts of the United Kingdom, France, and the Iberian Peninsula, and rain or snow at a few Russian stations. Largest amount, 1·1 ins. at Bilbao.

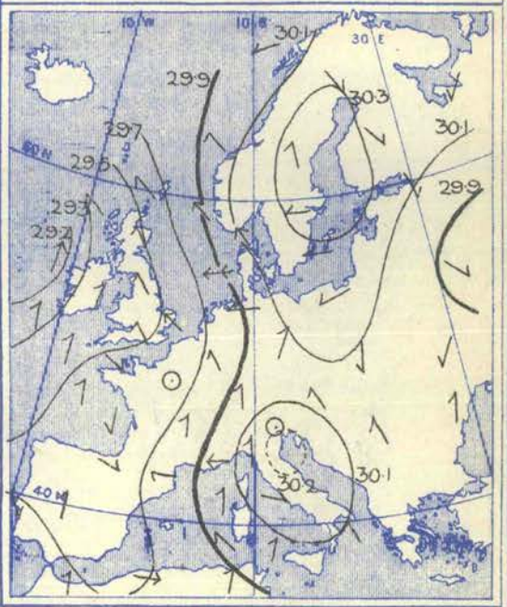
Temperature risen in most countries, but fallen in Sweden, Finland, and Russia. Readings in morning highest, 84° at Algiers, 77° at La Calle, and above 60° in the extreme south generally, as well as at Lyons. Lowest, 20° at Haparanda and below 32° over the northern parts both of Russia and Scandinavia. Below 50° over the major portion of our Islands, Hungary, and Poland. Rising subsequently to 69° in London, to above 70° over the south of France, Italy, and in parts of Germany, as well as at Brussels and Paris. Highest values, 81° at Marseilles and 93° at La Calle.

Barometer and Wind.

8 a.m.



6 p.m.



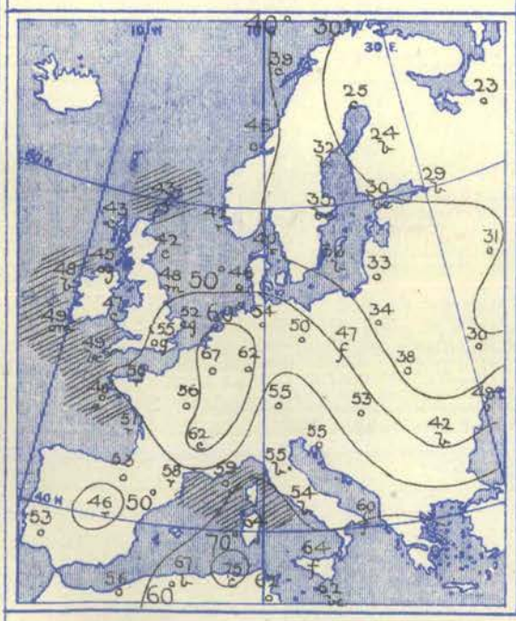
Wind at 8 a.m. light to moderate and anticyclonic over the eastern half of Europe generally, but a strong Southerly gale reported to be blowing at Patras. Moderate to fresh Southerly or South-Easterly breezes prevailing over most parts of the United Kingdom and its neighbourhood, but a strong gale from South-South-West raging in the north-west of Ireland. Latter moderating by evening, but no other important change occurring. Direction of wind becoming more variable over England.

Barometer at 8 a.m. ranging from above 30·3 ins. in an anticyclone centred over the Gulf of Bothnia and above 30·2 ins. in another system over the Black Sea and its neighbourhood, to below 29·1 ins. in a depression off the West of Ireland. Pressure relatively low in shallow disturbances over Germany and the Bay of Biscay. Northern anticyclone increasing in size later, depression off Ireland continuing to either recede or disperse, and shallow disturbance over the Bay travelling northwards to England.

Friday, 15th April, 1904.

Temperature and Weather.

8 a.m.

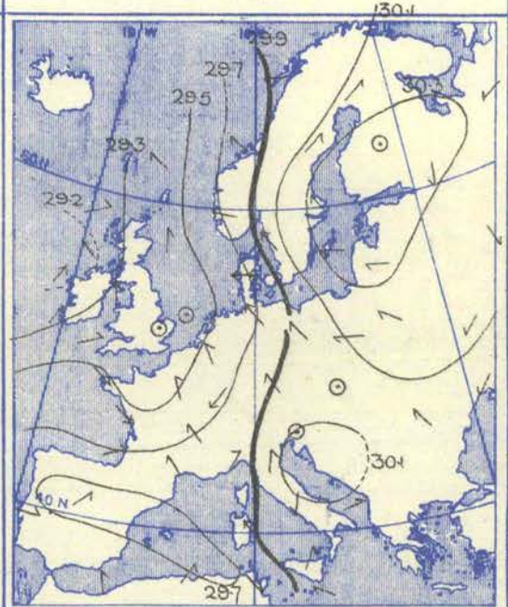


Weather in morning fine at most of the Irish and Scotch stations, but dull over western and central Europe generally, with rain in many parts of England, as well as at Skagen, Rochefort, Perpignan, and Madrid. Fine over Sweden and northern Russia, and also in Italy. Decided improvement taking place over England later, but rain falling in nearly all other parts of western Europe. Thunderstorm occurring at Algiers, and lightning seen at Lyons.

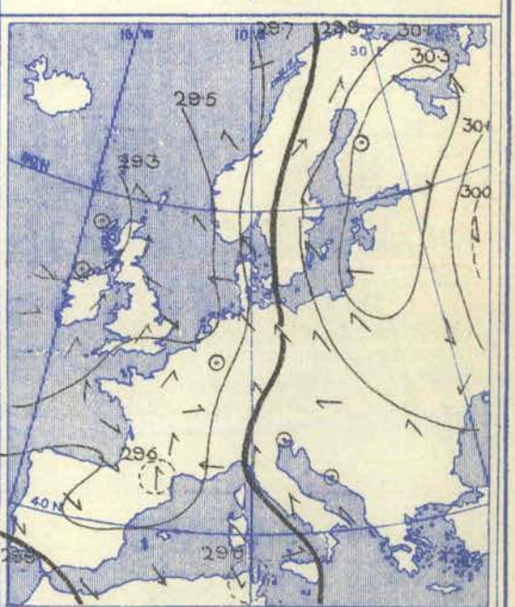
Temperature changed slightly and irregularly. Morning readings highest, (1) 75° at Tunis, 71° at Sfax, 67° at Algiers, and 66° at Nice, (2) 67° at Brussels; above 60° in some parts of central France and western Germany. Lowest, 23° at Archangel, 24° at Kuopio, 25° at Haparanda, and 26° at Uleaborg. Rising during day to 55° and upwards in several parts of the United Kingdom, and to 63° at Yarmouth. Exceeding 70° over the Netherlands, Germany, and the greater part of southern Europe, and reaching 82° at Palermo and 84° at Carlsruhe and Florence.

Barometer and Wind.

8 a.m.



6 p.m.

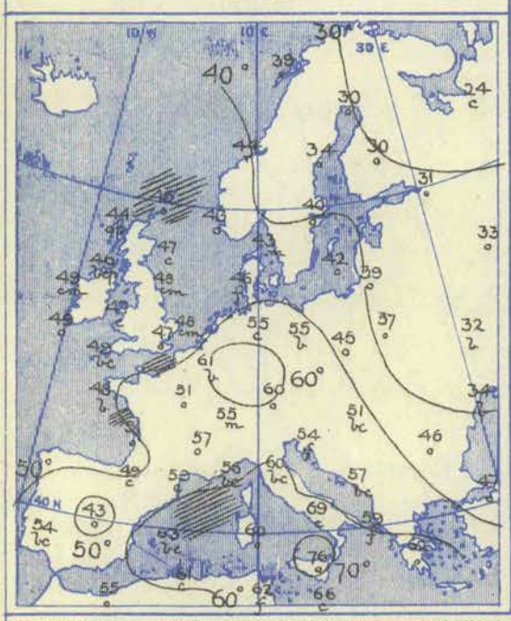


Wind moderate from the South-Westward in the western parts of the United Kingdom, but calm or light from the Southward on our east coasts; variable in the central and southern districts. Easterly or South-Easterly in Norway, Denmark, and Germany, with a gale at Fanö. Light from the Northward in Russia; variable over the greater part of southern Europe. South-Westerly breezes settling in later over England; no decided change occurring elsewhere.

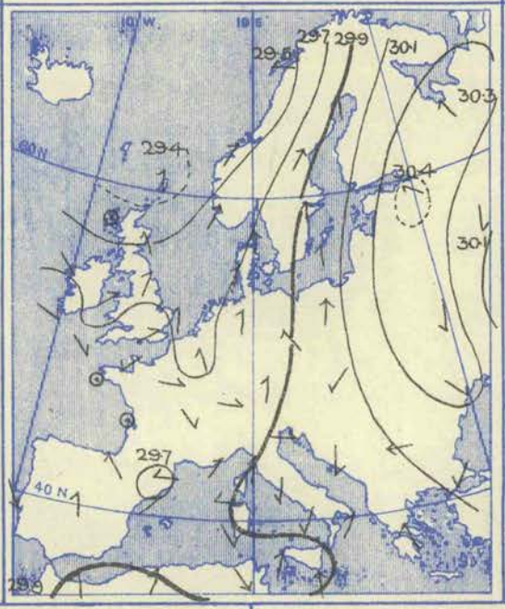
Barometer highest, 30·3 ins. and upwards over Finland, the Baltic, and the neighbouring provinces; 30·1 ins. and upwards over the eastern and central parts of the Continent generally. Lowest, 29·2 ins. and less in a shallow depression off the north-west of Ireland. Gradients slight generally, but rather steep over Scandinavia, Denmark, and North Germany. Some very shallow disturbances lying over England in morning, subsequently moving away to the North Sea, and barometer rising in most parts of the United Kingdom.

Saturday, 16th April, 1904.

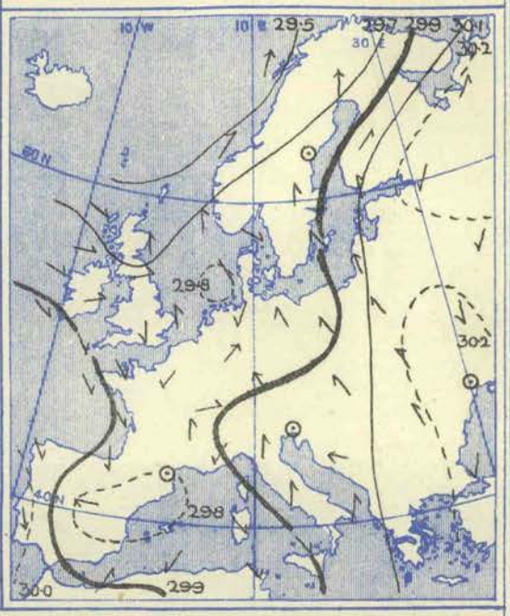
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over the greater part of the United Kingdom, but cloudy and misty in places, and showery on our extreme north-west coasts. Cloudy or dull over the Continent as a whole, with fog in several isolated places, with rain at Christiansund and snow at Uleaborg. Slight rain falling later at several of our own northern stations, and larger quantities in many of the western and northern European countries; thunderstorm occurring at Cuxhaven at night, and thunder heard at Fanö.

Temperature fallen in England, France, the Netherlands, and western and southern Germany, changed irregularly elsewhere. Morning readings highest, 76° at Palermo, 69° at Naples, and 66° at Malta; above 60° at several of the Mediterranean stations. Highest in our Islands, 50° at Leith; lowest, 24° at Archangel and 30° at Haparanda, Uleaborg, and Kuopio; below 40° over the whole of Sweden and Russia. Rising during day to 55° and upwards in most parts of the United Kingdom, to 60° at Oxford and to 61° in London, exceeding 60° in France and exceeding 75° in many parts of Germany and Italy, the highest readings reported being 84° at Palermo and 82° at Carlsruhe.

Wind light from the North-Westward in Ireland and from the Westward or South-Westward over Great Britain. South-Easterly in Germany and Southerly over the greater part of northern Europe, with a strong breeze in many places. Light and variable over France, Spain, and Italy, but Northerly or North-Westerly over the central and southern parts of Russia. Northerly and North-Westerly breezes setting in later over the Bay of Biscay and the Spanish Peninsula. No decided change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards to 30·1 ins. in an anticyclone covering the whole of European Russia. Lowest, 29·4 ins. and less in a shallow depression off the north of Scotland; small secondary systems reported over various parts of our Islands and the North Sea. Depressions, both main and secondary, travelling away to the north-eastward later, and new high pressure system spreading from the Atlantic over the Bay of Biscay and our own extreme south-west coasts.

IV.—GENERAL NOTES, etc.

At the beginning of the week an anticyclone lay over the Bay of Biscay, France and the extreme south of our Islands, while centres of low pressure were shown respectively over central Sweden and a few miles to the northward of the Shetlands. Strong Westerly to North-Westerly winds were reported over the whole of the United Kingdom, with gales on many parts of our northern coasts, while in the west of Norway the wind drew into South-East or East. The anticyclone and the low pressure system near the Shetlands afterwards moved eastwards, the latter rapidly becoming shallower, so that the wind in our Islands steadily subsided. On reaching the south-eastern parts of the continent the anticyclone increased in size and intensity, a new high pressure area being at the same time developed over northern Europe. In the western countries the weather was now influenced by a large cyclonic system which spread in from the Atlantic, the wind increasing to a slight gale from South or South-East in many parts of the United Kingdom with a general fall of rain, and with thunderstorms in the east and south-east of England. The depression ultimately moved away again over the Atlantic in a north-westerly direction, but numerous small secondary disturbances advanced over Great Britain from the southward, the wind over England becoming light and variable, with dull gloomy weather and thunder in a few isolated localities. At the close of the week these small systems were all travelling away to the northward or north-eastward, and a large anticyclone of moderate intensity was spreading over our Islands from the south-westward, light to moderate winds from West or North-West being prevalent over nearly the entire Kingdom.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 86.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	40·5	+ 6·4	41	+ 7
STRATHPEFFER SPA	29·2	− 3·3	30	− 3
EDINBURGH	23·7	− 4·5	24	− 5
COCKLE PARK	34·1	—	36	—
NEWCASTLE-ON-TYNE	31·0	—	32	—
YORK	29·7	− 1·0	31	− 1
SKEGNESS	39·9	—	42	—
CROMER	44·3	—	46	—
LOWESTOFT	—	—	—	—
DUNMOW	42·0	—	44	—
SHEFFIELD	33·0	—	34	—
WORKSOP	25·7	− 3·7	27	− 4
THURCASTON	35·9	+ 5·1	38	+ 5
MARGATE	38·9	+ 3·5	41	+ 4
BROADSTAIRS	41·8	—	44	—
RAMSGATE	42·2	—	44	—
EASTBOURNE	42·3	+ 2·8	45	+ 3
BRIGHTON	39·3	− 0·2	41	0
WORTHING	44·6	—	47	—
BOGNOR	53·3†	—	56†	—
WESTBOURNE	46·2†	+ 4·7	49†	+ 5
VENTNOR HOSPITAL	51·6	+ 9·2	54	+ 10
BOURNEMOUTH	44·0	—	46	—
MARLBOROUGH	39·7	+ 7·4	42	+ 8
SOUTHPORT	37·6	—	39	—
RHYL	34·0	—	35	—
ABERDOVEY	42·0†	—	44†	—
TENBY	46·5	+ 3·9	49	+ 4
TORQUAY	42·4	+ 1·8	45	+ 2
NEWQUAY	48·1	+ 8·1	51	+ 9
GUERNSEY	55·1†	+ 10·4	58†	+ 11

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

Reports received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending Mar. 26th, 1904.	Durham	55	32	47·0	36·4	41·5	+ 0·9	14	22	2	0·08	− 0·36	21·8	− 5·1	25	− 6
" " "	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	24·0	—	28	—
" " April 2nd "	"	—	—	—	—	—	—	—	—	—	—	—	29·6	—	33	—
" " " "	Bognor	—	—	—	—	—	—	—	—	—	—	—	35·9	—	40	—
" " " "	Rhyl	—	—	—	—	—	—	—	—	—	—	—	33·6	—	38	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 16. SIXTEENTH WEEK, ENDING SATURDAY, APRIL 23RD, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 92.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	64	28	52·3	39·5	45·6	2 above	36	+ 9	7	- 9	153	- 33	449	- 53
	1. SCOTLAND, EAST	67	27	55·6	38·1	46·4	2 above	47	+12	11	- 5	177	- 68	557	+ 5
	2. ENGLAND, N.E.	63	31	54·5	39·9	46·8	2 above	42	+ 9	6	- 5	212	- 40	429*	- 36
	3. ENGLAND, EAST	65	30	55·7	39·3	47·1	0 (average)	47	+ 3	8	- 4	249	- 69	404*	-107
	4. MIDLAND COUNTIES	65	30	57·3	39·2	47·8	1 above	52	+ 6	8	- 6	253*	- 89	465*	- 51
	5. ENGLAND, SOUTH	67	32	58·2	40·4	48·9	1 above	55	+ 7	4	- 3	291	- 76	345*	- 40
Principal Grazing Districts.	6. SCOTLAND, WEST	63	34	56·6	39·6	47·7	2 above	50	+12	7	- 3	210*	- 54	368	- 27
	7. ENGLAND, N.W.	64	33	54·9	41·4	47·8	1 above	43	+ 4	2	- 6	201	- 78	386	+ 5
	8. ENGLAND, S.W.	64	34	56·3	42·5	49·1	1 above	50	+ 5	0	- 5	350	- 34	252	- 44
	9. IRELAND, NORTH	61	32	52·5	40·2	46·0	0 (average)	36	- 5	5	- 2	241	- 97	334	- 6
	10. IRELAND, SOUTH	64	32	55·0	40·7	47·5	0 (average)	44	- 4	4	- 1	363	- 77	232	- 15
	— CHANNEL ISLANDS	60	43	55·4	45·1	50·0	1 above	56	+ 5	0	- 1	464	- 22	80	- 40

Rainfall.

	DISTRICTS. (See p. 92.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	5	2 less	78	+ 6	17·2	+ 1·6
	1. SCOTLAND, EAST	3	1	3 less	69	+ 9	9·0	+ 0·4
	2. ENGLAND, N.E.	2	1	3 less	65	+ 9	6·4	0·0
	3. ENGLAND, EAST	1	2	1 less	62	+ 5	6·8	+ 0·7
	4. MIDLAND COUNTIES	2	2	2 less	72	+19	8·8	+ 1·6
	5. ENGLAND, SOUTH	2	2	2 less	70	+16	10·0	+ 2·2
Principal Grazing Districts.	6. SCOTLAND, WEST	3	5	1 less	71	+ 9	16·9	+ 1·9
	7. ENGLAND, N.W.	2	2	2 less	69	+11	11·0	+ 2·0
	8. ENGLAND, S.W.	2	2	3 less	73	+13	13·5	+ 2·4
	9. IRELAND, NORTH	5	6	0 (average)	84	+14	12·7	+ 2·8
	10. IRELAND, SOUTH	4	4	2 less	81	+16	14·7	+ 2·4
	— CHANNEL ISLANDS	3	3	2 less	79	+13	14·3	+ 4·7

Bright Sunshine.

	DISTRICTS. (See p. 92.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	35	+ 1	35	+ 1	255	- 31	22	- 3
	1. SCOTLAND, EAST	32	- 2	32	- 2	285	- 39	24	- 3
	2. ENGLAND, N.E.	47	+10	47	+10	301	- 46	25	- 4
	3. ENGLAND, EAST	50	+10	51	+10	343	- 41	29	- 3
	4. MIDLAND COUNTIES	38	+ 7	39	+ 7	279	- 35	23	- 3
	5. ENGLAND, SOUTH	46	+ 6	47	+ 6	335	- 31	28	- 3
Principal Grazing Districts.	6. SCOTLAND, WEST	41	0	41	0	267	- 66	23	- 6
	7. ENGLAND, N.W.	48	+15	49	+15	288	- 26	24	- 2
	8. ENGLAND, S.W.	50	+10	51	+10	335	- 56	28	- 5
	9. IRELAND, NORTH	41	+ 6	41	+ 6	278	- 48	23	- 4
	10. IRELAND, SOUTH	48	+ 9	48	+ 9	302	- 69	25	- 6
	— CHANNEL ISLANDS	50	+ 4	51	+ 4	405	- 42	33	- 3

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather. The general character of the weather during the week was fine and bright over the Kingdom as a whole, but slight falls of rain were somewhat frequent over the northern parts of Scotland and Ireland, while towards the end of the period considerable or rather heavy amounts were experienced in nearly all the other districts.

Temperature continued a little above the mean in most parts of Great Britain, but only just equalled it in Ireland and the east of England. The highest of the maxima were recorded on the 19th or 20th, when they ranged from 67° in Scotland E. and England S., to 61° in Ireland N., and to 60° in the Channel Islands. The lowest of the minima, which were registered on Thursday in the north and on the following day in the south, varied from 27° in Scotland E., 28° in Scotland N., 30° in England E. and the Midland Counties, and 32° in England S. and the Irish districts, to 43° in the Channel Islands.

Rainfall was less than the mean except in Ireland N., where that value was just equalled.

Bright Sunshine exceeded the mean in all districts except Scotland W. and E., and the duration was very equally distributed. The percentage of the possible amount ranged from 51 in England E., S.W., and the Channel Islands, 49 in England N.W., 48 in Ireland S., and 47 in England N.E. and S., to 39 in the Midland Counties, 35 in Scotland N., and 32 in Scotland E. The highest percentages at individual stations were 64 at Skegness, 62 at Clacton-on-Sea, and 61 at Tenby and Torquay.

Barometer and Wind. The relative distribution of pressure changed rather frequently over the United Kingdom and its immediate neighbourhood. The barometer was, however, generally highest off the west of Ireland or over the Bay of Biscay, and lowest in depressions which appeared off our northern and north-western coasts, or in other systems which, in the earlier half of the week, reached the Netherlands from the southward. The former systems were accompanied by light or moderate Westerly winds, but with the latter the wind veered to north-west or north and increased greatly in force, a strong breeze or slight gale being experienced on many parts of our coasts. At the end of the week a depression, which had apparently travelled south-south-eastwards from our north-western coasts, lay over the south-east of England, the Netherlands, and the adjacent portions of France, while a rather shallow system lay off the north of Scotland.

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Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	51	35	48·0	40·4	44·0	+ 1·9	21	4	2	0·24	− 0·22	*	*	*	*
	Stornoway	52	35	50·4	39·4	44·6	+ 1·0	29	7	6	0·45	− 0·12	38·1	+ 0·1	37	0
	Wick	58	30	53·1	38·7	45·6	+ 1·8	39	9	3	0·09	− 0·29	*	*	*	*
	Lairg Ⓢ	64	30	55·7	39·0	47·0	+ 4·4	48	8	4	0·50	− 0·04	*	*	*	*
	Glencarron Ⓢ	53	33	50·7	39·3	44·7	+ 1·3	30	8	6	0·98	− 0·05	*	*	*	*
	Fort Augustus Ⓢ	63	28	55·2	39·0	46·7	+ 1·5	46	8	4	0·33	− 0·14	34·5	+ 6·7	34	+ 7
	Fort William	58	33	52·9	40·4	46·4	+ 0·7	38	4	6	0·55	− 0·27	32·4	− 1·1	32	− 1
1. SCOTLAND, E.	Nairn	67	37	57·4	40·9	48·8	+ 4·2	52	3	3	0·15	− 0·14	*	*	*	*
	Aberdeen	55	34	52·3	38·9	45·3	+ 0·8	36	9	3	0·19	− 0·27	35·0	− 2·3	34	− 2
	Braemar Ⓢ	56	27	50·9	32·7	41·4	− 0·2	25	36	1	0·01	− 0·50	*	*	*	*
	Ochtertyre Ⓢ	62	32	58·9	37·9	47·9	+ 2·5	59	11	2	0·10	− 0·43	*	*	*	*
	Leith Ⓢ	66	35	57·9	40·6	48·8	+ 3·1	53	4	4	0·19	− 0·15	*	*	*	*
	Marchmont Ⓢ	62	35	56·3	37·4	46·4	+ 2·7	50	13	3	0·22	− 0·31	38·5	+ 4·1	39	+ 4
2. ENGLAND, N.E.	Alnwick Castle	57	31	54·7	37·1	45·5	+ 1·9	45	14	3	0·11	− 0·36	*	*	*	*
	Durham	58	36	54·7	38·5	46·2	+ 1·8	44	10	2	0·06	− 0·38	42·0	+ 11·3	42	+ 11
	Shields	56	39	54·7	41·3	47·7	+ 3·3	43	2	3	0·26	− 0·10	*	*	*	*
	Scarborough Ⓜ	53	40	51·8	40·6	45·9	+ 0·8	33	4	3	0·15	− 0·25	46·7	—	47	—
	Spurn Head	55	40	52·9	42·0	47·2	+ 1·9	36	0	1	0·11	− 0·20	*	*	*	*
	Lincoln	63	38	58·1	39·6	48·4	+ 1·7	55	7	1	0·07	− 0·30	*	*	*	*
	Fulbeck (Lincolnshire)	—	—	—	—	—	—	—	—	?2	?0·25	− 0·13	48·9	—	49	—
3. ENGLAND, E.	Hillington Ⓜ	63	30	57·4	37·0	46·7	+ 0·3	54	14	1	0·31	− 0·08	50·8	+ 13·2	51	+ 13
	Yarmouth	53	35	51·1	42·4	46·5	+ 1·2	32	0	1	0·39	+ 0·01	*	*	*	*
	Geldeston	62	32	56·6	39·0	47·4	+ 1·1	50	8	1	0·33	− 0·02	48·9	+ 9·5	49	+ 10
	Cambridge	65	30	57·9	36·6	46·7	− 0·8	56	15	1	0·20	− 0·15	49·9	+ 11·6	51	+ 12
	Felixstowe	56	33	53·6	40·4	46·7	− 0·2	40	4	1	0·03	—	54·4†	—	56†	—
	Clacton-on-Sea	57	33	54·6	41·4	47·7	+ 0·7	42	2	1	0·20	—	61·1†	—	62†	—
	Rothamsted	63	31	57·8	37·3	47·1	+ 0·8	55	13	2	0·31	− 0·12	42·5	+ 6·3	43	+ 7
	Shoeburyness	61	34	56·7	40·1	48·0	+ 0·4	50	5	1	0·15	− 0·15	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	60	37	56·0	39·6	47·4	+ 2·7	48	7	2	0·10	− 0·40	34·0	—	34	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	64	36	58·0	40·4	48·8	+ 1·9	54	4	2	0·24	− 0·16	42·0	—	42	—
	Colly Weston (Stamford)	65	37	58·4	39·1	48·3	+ 1·3	56	8	2	0·36	− 0·02	*	*	*	*
	Cheadle Ⓜ	60	38	55·7	40·1	47·5	+ 2·1	46	5	2	0·22	− 0·25	*	*	*	*
	Birmingham (Edgbaston)	62	39	55·6	40·7	47·8	+ 1·8	46	4	1	0·11	− 0·34	33·0	—	33	—
	Shrewsbury	63	34	58·6	38·4	48·0	+ 1·2	57	10	2	0·27	—	*	*	*	*
	Hereford Ⓜ	62	33	58·1	39·1	48·1	+ 1·0	55	8	1	0·08	− 0·31	*	*	*	*
	Cirencester	62	30	56·9	35·5	45·7	− 0·3	53	18	1	0·10	− 0·35	44·0	+ 6·0	45	+ 6
	Oxford	64	36	58·3	39·6	48·5	+ 1·1	56	7	1	0·10	− 0·27	43·0	+ 6·3	44	+ 7
5. ENGLAND, S.	London	67	35	60·7	40·6	50·2	+ 1·7	63	4	1	0·58	+ 0·20	37·2‡	+ 5·7†	38‡	+ 6‡
	Wisley	64	32	59·1	37·2	47·6	− 1·5	59	13	2	0·29	—	36·1	—	37	—
	Swarraton (Alresford) Ⓜ	62	32	57·1	37·9	47·0	+ 0·9	52	11	2	0·08	− 0·35	*	*	*	*
	Tunbridge Wells Ⓜ	66	34	58·7	39·3	48·5	+ 1·3	57	8	1	0·25	—	50·6	—	52	—
	Dungeness	60	34	56·0	40·7	48·0	+ 1·1	47	4	1	0·28	− 0·02	56·1	—	57	—
	Hastings (St. Leonards)	62	39	57·3	42·8	49·7	+ 2·3	54	0	2	0·18	− 0·24	56·4	+ 14·0	58	+ 14
	Southampton	66	39	61·7	42·0	51·4	+ 2·6	66	0	1	0·13	− 0·31	48·2	+ 7·3	49	+ 8
	Portland Bill	65	41	57·6	43·4	50·2	+ 1·6	57	0	3	0·04	—	*	*	*	*
	Shaftesbury Ⓜ	60	38	55·3	39·8	47·2	+ 0·6	46	6	1	0·19	− 0·36	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	60	34	55·1	39·7	47·0	+ 0·7	45	6	4	0·83	− 0·03	*	*	*	*
	Glasgow	60	36	54·6	40·4	47·2	+ 1·8	43	4	2	0·36	− 0·12	37·5	+ 6·5	38	+ 7
	Cally Ⓢ	63	35	59·3	38·9	48·6	+ 3·1	59	9	5	0·57	− 0·03	*	*	*	*
	Aspatria	62	36	57·2	39·3	47·8	+ 2·6	52	8	2	0·37	—	43·9	—	44	—
	Douglas (Isle of Man)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7. ENGLAND, N.W.	Newton Rigg	59	33	55·4	37·7	46·1	+ 1·9	47	12	3	0·18	—	51·3	—	51	—
	Stonyhurst	59	39	55·1	41·0	47·7	+ 1·8	44	3	3	0·33	− 0·22	44·2	+ 8·6	44	+ 9
	Blackpool Ⓜ	62	36	55·2	39·2	46·8	+ 0·2	45	8	3	0·30	− 0·10	58·6	+ 22·1	59	+ 22
	Manchester (Prestwich)	60	40	56·1	40·5	47·9	+ 1·8	48	4	2	0·26	− 0·20	26·0	—	26	—
	Liverpool Obsy. (Bidston)	61	42	53·9	43·1	48·2	+ 0·8	43	0	1	0·09	− 0·26	51·7	—	52	—
	Chester (Hawarden Bridge)	63	39	56·1	42·8	49·1	+ 1·3	50	0	1	0·05	—	*	*	*	*
	Llandudno Ⓜ	59	42	54·9	43·8	49·1	+ 1·5	50	0	2	0·17	− 0·24	52·6	+ 15·3	53	+ 16
	Holyhead	57	42	51·6	43·1	47·2	− 0·1	36	0	3	0·27	− 0·17	*	*	*	*
	Bettws-y-Coed	64	38	55·6	41·4	48·2	+ 1·2	46	2	3	0·32	—	46·6	—	47	—
8. ENGLAND, S.W.	Pembroke	57	41	52·1	43·7	47·7	+ 0·9	40	0	3	0·15	− 0·29	57·7	+ 14·2	59	+ 15
	Clifton	63	40	58·4	43·0	50·3	+ 2·9	58	0	2	0·31	− 0·20	*	*	*	*
	Bath	63	34	58·4	40·3	48·9	+ 0·9	55	5	1	0·36	− 0·11	40·7	—	42	—
	Arlington (N. Devon)	59	35	55·0	40·7	47·5	+ 1·8	44	4	3	0·29	− 0·37	*	*	*	*
	Cullompton Ⓜ	63	39	59·3	41·8	50·1	+ 1·7	58	1	2	0·09	− 0·45	51·0	+ 13·4	52	+ 14
	Falmouth	60	40	54·0	44·2	48·9	+ 0·5	48	0	3	0·27	− 0·37	54·6	+ 10·8	56	+ 11
	Plymouth	64	38	57·0	43·9	50·1	+ 1·1	57	0	3	0·10	− 0·43	47·1	+ 5·5	48	+ 6
9. IRELAND N.	Malin Head	58	40	49·9	40·7	45·1	− 1·3	27	4	5	0·49	+ 0·05	*	*	*	*
	Edenfel (Omagh)	60	32	53·0	37·4	44·8	− 0·6	39	13	4	0·48	− 0·06	*	*	*	*
	Blacksod Point	52	42	50·0	43·7	46·7	− 0·9	33	0	7	1·28	+ 0·63	*	*	*	*
	Markree Castle	60	33	53·6	40·0	46·5	+ 0·2	40	6	5	0·65	+ 0·10	38·6	+ 3·0	39	+ 3
	Armagh	61	33	57·2	38·2	47·2	+ 1·2	52	11	3	0·25	− 0·23	42·3	+ 8·1	42	+ 8
	Donaghadee	53	36	51·0	41·3	45·9	− 0·5	30	2	3	0·18	− 0·26	*	*	*	*
10. IRELAND, S.	Dublin	60	36	56·5	41·3	48·5	+ 0·5	48	2	4	0·09	− 0·37	48·0	+ 8·4	49	+ 9
	Birr Castle	62	32	55·0	35·6	44·8	− 2·5	46	18	5	0·25	− 0·25	50·4	+ 13·8	51	+ 14
	Kilkenny	61	34	55·1	39·9	47·1	− 0·5	45	6	2	0·07	− 0·45	*	*	*	*
	Waterford	62	37	57·3	42·4	49·5	+ 2·5	53	0	1	0·25	− 0·33	*	*	*	*
	Roche's Point	58	40	54·3	42·7	48·2	− 0·5	43	0	3	0·28	− 0·42	*	*	*	*
	Valencia	55	40	51·7	43·0	47·1	− 1·9	36	0	6	0·90	+ 0·05	44·8	+ 5·1	46	+ 6
	Killarney	64	37	57·5	40·8	48·8	+ 0·8	53	3	5	0·50	− 0·27	*	*	*	*
	Foynes	59	35	52·2	39·7	45·7	− 1·9	36	6	4	0·73	+ 0·16	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	43	53·9	44·3	48·9	− 0·2	48	0	3	0·41	− 0·06	51·8	+ 8·1	53	+ 8
	Jersey	60	43	56·9	45·9	51·1	+ 1·3	64	0	2	0·19	− 0·25	45·6	− 1·4	47	− 2

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

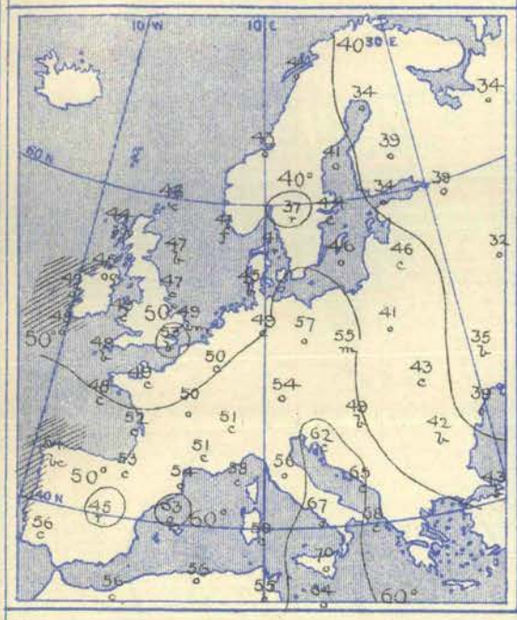
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

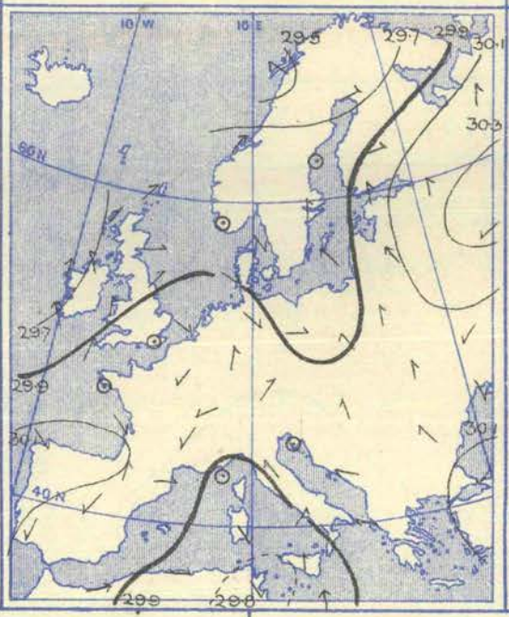
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 17th April, 1904.

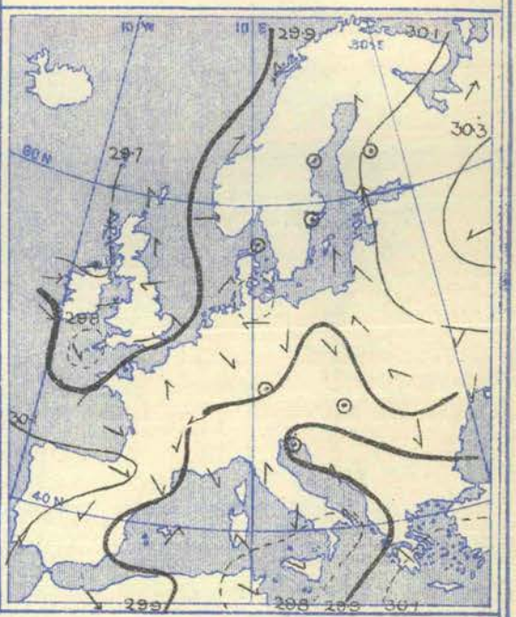
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in some parts of central and southern Europe and at a few of our own stations; cloudy or overcast as a whole, with rain at Oran, Madrid, Valencia Island, Skagen, and Karlstad, and showers at Stornoway. Rain experienced later in many parts of our area—heaviest falls, 0·4 in. at Valencia Island, 0·6 in. at Paris, 0·9 in. at Frankfurt, 1·4 ins. at Nemours, and 1·6 ins. at Prague.

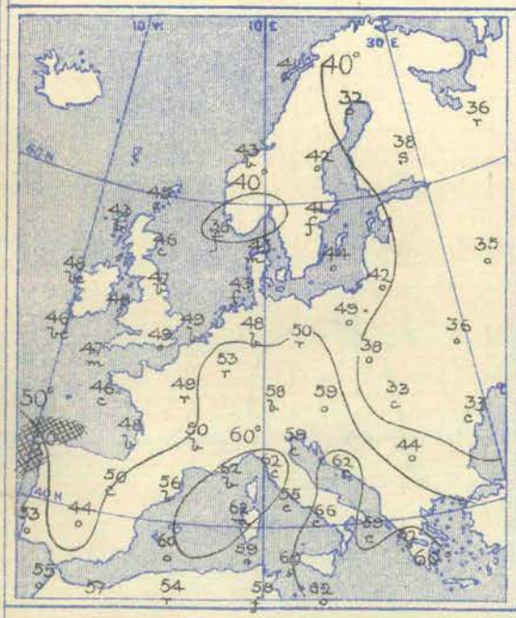
Temperature risen generally, but fallen at some southern stations. Morning values highest, 70° at Palermo, 65° at Lesina, 63° at Barcelona, and about 60° or a little lower in most southern localities. Lowest, 32° at Moscow and Kharkov, 34° at Archangel and Haparanda, 37° at Karlstad, 44° at Oxford, and 45° at Madrid. Maxima during day, 64° in London, some degrees higher over the major portion of central Europe and France, and above 70° in Italy. Highest readings, 77° at Brindisi and 81° at Sfax.

Wind in morning light and anticyclonic both over north-eastern and south-western Europe; cyclonic elsewhere. Southerly and South-Westerly winds light to moderate generally over our Islands and Scandinavia, but fresh or strong in a few places. Little change later as a whole, but a complete cyclonic movement setting in on our south-west coasts.

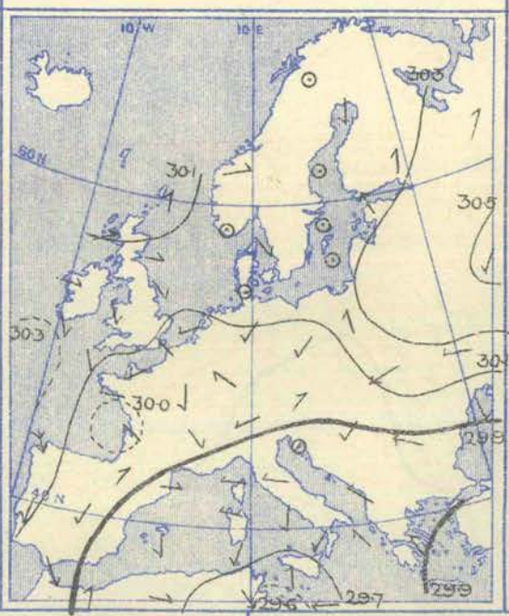
Barometer in morning highest, 30·3 ins. and upwards over central Russia, and above 30·1 ins. over Portugal and the north of Spain. Lowest, 29·5 ins. at Bodö, less than 29·7 ins. on our extreme north-west coasts, and below 29·9 ins. in the south of Russia and also in Tunis. Barometer rising quickly later in the north of Scandinavia. A well-defined depression appearing over the Bristol Channel and its neighbourhood by evening, but subsequently either dispersing or moving south-eastwards. Tunisian low pressure spreading north-eastwards to Italy.

Monday, 18th April, 1904.

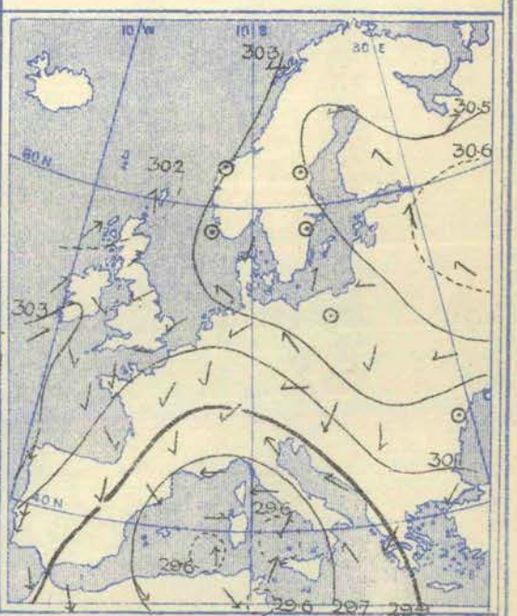
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in many parts of Ireland, England, and southern Europe, but cloudy or overcast as a whole. Rainy at Algiers, Paris, Frankfurt, Berlin, and Archangel, snow falling at Kuopio and Hangö, and fog prevailing in the south of Scandinavia. Weather remaining dry in most regions, but considerable rain falling in some of the southern countries. Largest amount, 1·2 ins. at Turin.

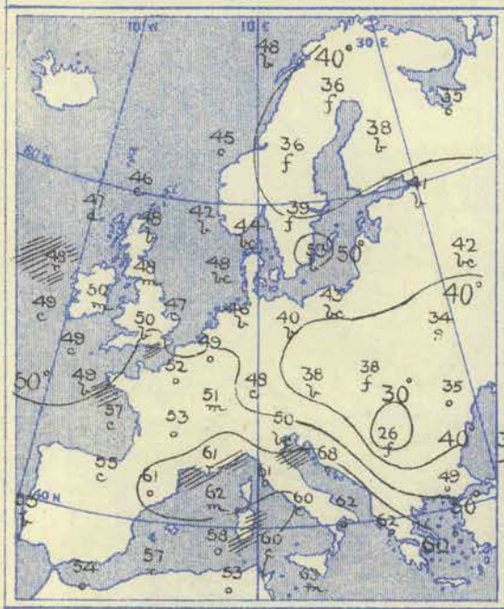
Temperature changed irregularly. Morning readings highest, 66° at Naples, 65° at Barcelona, and but a few degrees lower on the shores of the Mediterranean generally. Lowest, 32° at Haparanda, 33° at Odessa and Lemberg, and below 40° over Poland, Finland, and Russia as a whole, 43° at Parsonstown, and 44° at Madrid. Rising subsequently to 66° in London, to above 70° in nearly all of the most southern regions. Highest, 79° at Croisette.

Wind at 8 a.m. strong to a gale from the Northward on the west coast of the Iberian Peninsula, and fresh to strong from the same quarter on our south-west coasts. Mainly Easterly or North-Easterly, light to fresh, over the southern and central countries, and variable in the north and north-east. No general change taking place later, but considerable increase in the strength of the cyclonic winds occurring over the Mediterranean.

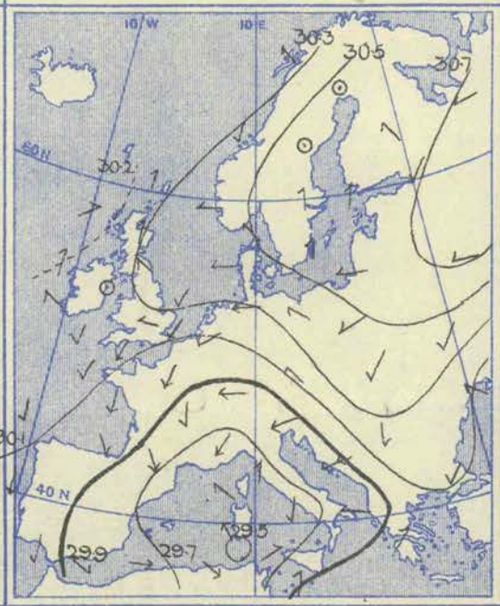
Barometer at 8 a.m. highest, above 30·5 ins. in an anticyclone over central Russia, and 30·28 ins. at Valencia Island, to 30·6 ins. and less in a depression over the Bay of Biscay, and to less than 29·6 ins. in the centre of a large irregularly shaped disturbance over the Mediterranean. Pressure increasing later both over Russia and our Islands. Southern disturbance becoming very complex and deeper, and gradients increasing considerably. Depression over the Bay disappearing.

Tuesday, 19th April, 1904.

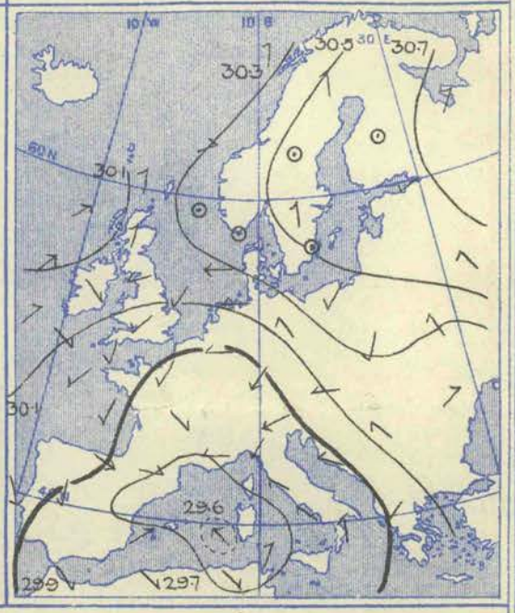
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in Portugal, most parts of the United Kingdom, and central and northern Europe; dull on our extreme north-west coasts, with rain in places, cloudy or dull in nearly all the southern regions, with rain in Algeria and at Nice, and snow at Kiev. Heavy rain falling later in the west of Ireland, and in many Mediterranean districts—0·6 in. at Blacksod Point, 0·8 in. at Perpignan, 1·0 in. at Cette, and 1·3 ins. at Turin.

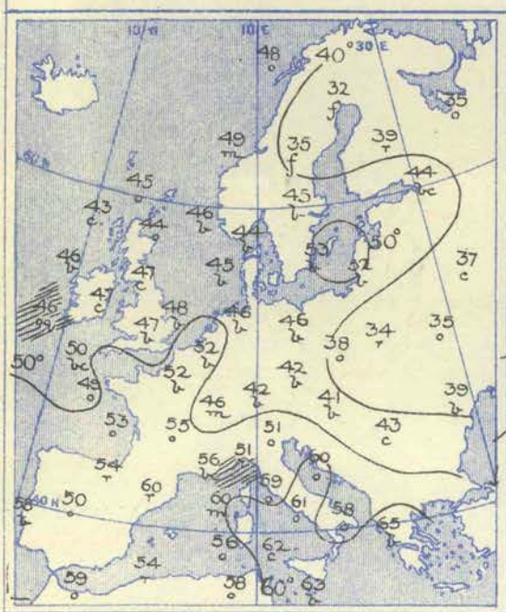
Temperature fallen over central Europe, risen or changed irregularly elsewhere. Morning values highest, 68° at Lésina, 64° at Leghorn, 63° at Malta, and about 60° at several southern stations. Lowest, 26° at Hermanstadt, 34° at Kiev, 35° at Archangel, and below 40° over the greater part of Sweden and Finland. Rising during day to 50° at St. Petersburg, 55° at Stockholm, 67° at Nairn, and to 70° or a little higher at many stations in the extreme south.

Wind in morning showing an extensive cyclonic circulation, strong to a gale, around the western portion of the Mediterranean. Light anticyclonic airs prevailing over the greater part of Europe and the United Kingdom, but a strong South-South-West wind blowing on the north-west coast of Ireland. Little change later except some diminution in the force of the various currents over southern Europe and the Mediterranean.

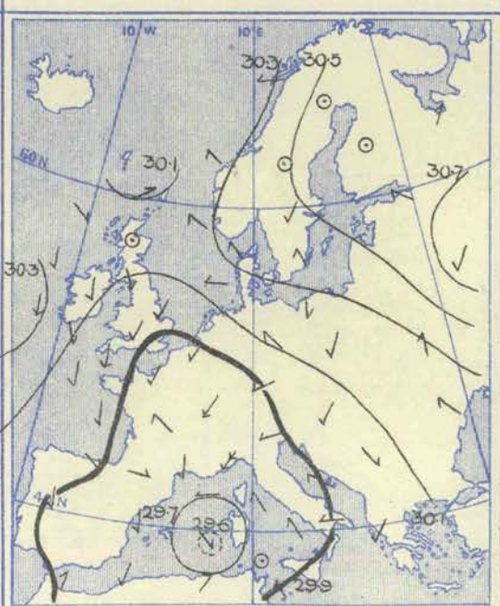
Barometer at 8 a.m. highest, 30·7 ins. to above 30·2 ins. in a very large anticyclone centred over northern Russia and extending thence to Ireland. Lowest, 29·6 ins. and less in an irregularly shaped disturbance over Sardinia and its neighbourhood. Gradients rather steep over the central and southern countries. High pressure system giving way slowly during day, and gradients around the baric minimum consequently becoming reduced.

Wednesday, 20th April, 1904.

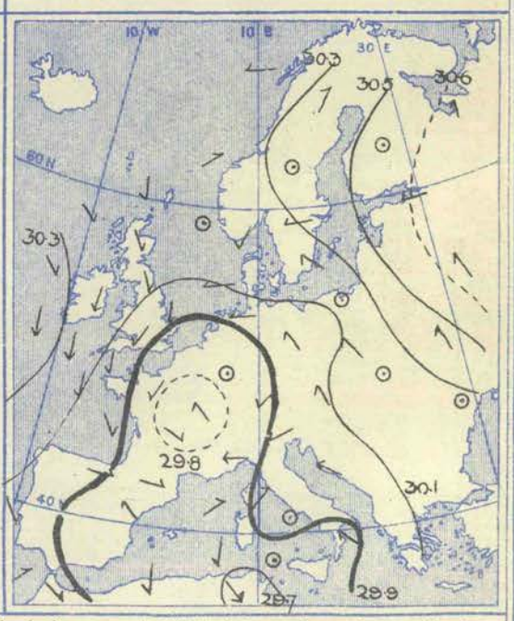
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in Portugal, most parts of France, the United Kingdom, Germany, Denmark, and the south of Scandinavia, and at some Austrian and Hungarian stations. Cloudy or overcast elsewhere; rainy in the north of Italy, at Algiers, Barcelona, Biarritz, and Lemberg. Remaining fine in almost all the more northern regions, but heavy rain falling in several southern localities. As much as 0·7 in. at Lyons (accompanied by thunder and lightning), 0·8 in. at Florence, and 2·2 ins. at Aumale.

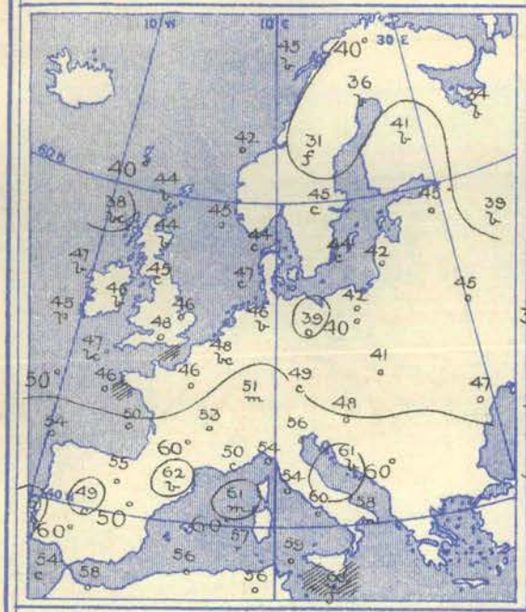
Temperature fallen as a whole. Morning readings ranging from 65° in Greece, and about 60° in several other southern regions, to less than 50° over our area generally, and to below 40° in many parts of north-eastern and eastern Europe. Lowest value, 32° at Haparanda. Rising during day to 57° at Stockholm, 63° at St. Petersburg, 67° in London, and to about 70° or a few degrees higher in various Mediterranean districts. Maximum not exceeding 55° at Biarritz.

Wind in morning showing an anticyclonic movement of light winds over the north-east and east of Europe, and a cyclonic circulation of little strength in the south and over the Mediterranean. Northerly breezes most prevalent over our Islands, and blowing freshly or strongly in the West, but a light breeze from West-South-West prevailing at Sumburgh Head. Not much change later except a general increase in the force of the Northerly current over the United Kingdom and the setting in of a light cyclonic movement around the east of France.

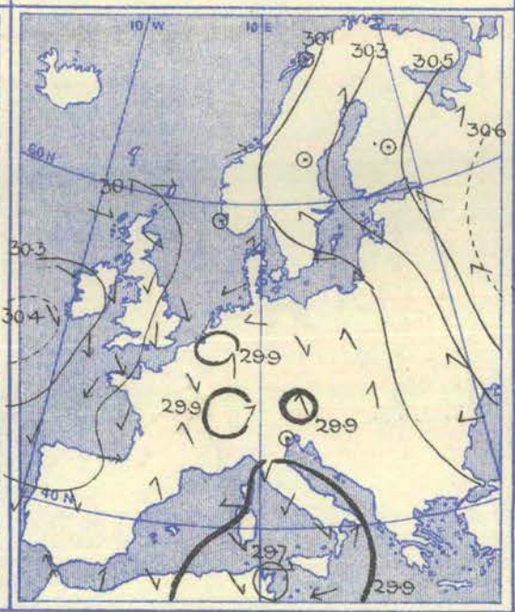
Barometer at 8 a.m. ranging from 30·7 ins. and upwards in an anticyclone having its centre over Russia, and above 30·3 ins. in another high pressure system spreading over Ireland from the westward, to less than 30·1 ins. off the north of Scotland, and to below 29·6 ins. in an irregularly shaped depression with its chief minimum near Cagliari. Western anticyclone continuing to extend over Ireland during day, but that in the east receding somewhat. A shallow depression appearing over France and the west of Germany, but the minimum near Cagliari either dispersing or moving southward.

Thursday, 21st April, 1904.

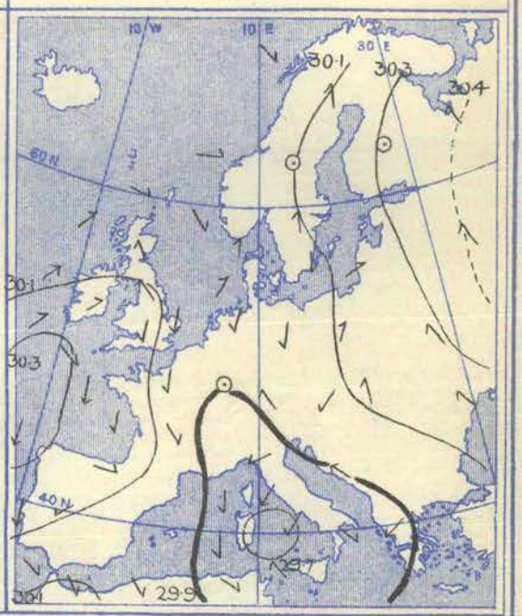
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast as a whole, but fine and bright in several scattered localities, especially over the United Kingdom, the Netherlands, and the extreme north and east of Europe. Showers reported in the south-west of Ireland, and steady rain at Bilbao. Some rain falling subsequently in various parts of our Islands and in different parts of the Continent. Largest amount, 0·47 in. at Neu-Fahrwasser.

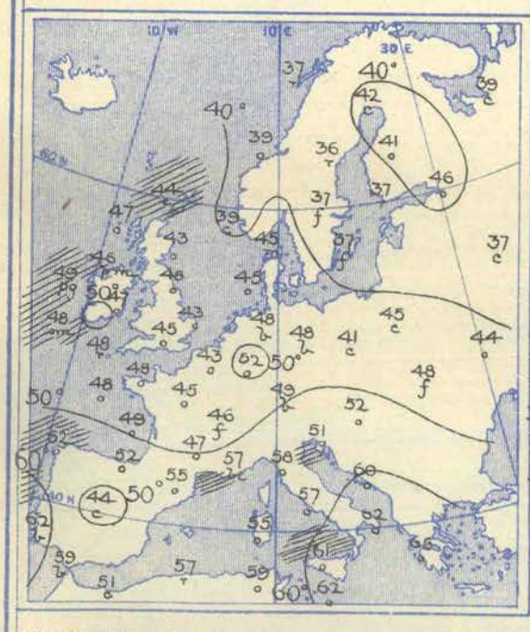
Temperature fallen in most western and risen in most eastern parts of our area. Readings in morning highest, 62° at Barcelona, 61° at Lisbon, and about the same value or a trifle lower at several southern stations. Lowest, 31° at Hernösand, 34° at Archangel, 39° at Moscow and Berlin, and 38° in the Hebrides. Maximum during day, no higher than 51° in London and at Oxford, but thermometer rising to 57° at Leith, Nottingham, and Dungeness, to about 70° in the extreme south of Europe, and to 77° at Nemours.

Wind in morning light from West in Scotland, and moderate to fresh or strong from the Northward over Ireland and England—a fresh gale reported at Spurn Head. Light and mainly Easterly over eastern and northern Europe, and light and cyclonic over the more central and southern counties. A strong gale from South-South-East prevailing at San Fernando. Not much change as a whole during day, but wind backing and increasing in force in Ireland, and gales at Spurn Head and San Fernando subsiding.

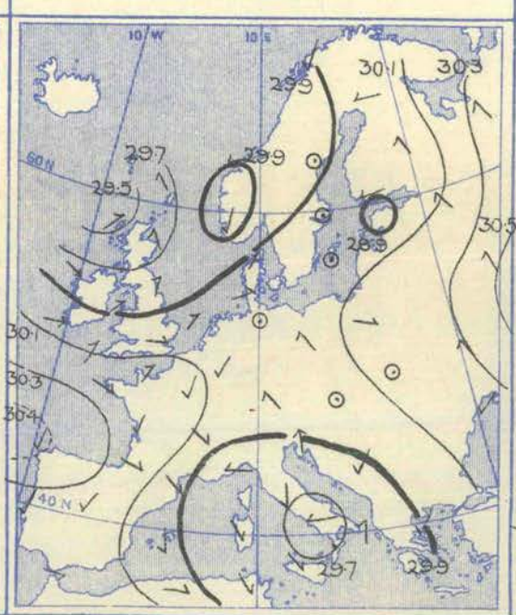
Barometer at 8 a.m. ranging from above 30·6 ins. in an anticyclone over Russia, and as high as 30·4 ins. off the south-west of Ireland, to less than 30·0 ins. in a disturbance over the south-west of the Spanish Peninsula, and to about 29·7 ins. in a depression having its centre near Tunis. A relatively low area embracing nearly all central Europe, the north of Italy, and the east of France, and containing several distinct minima. Barometer falling briskly later on our west and north-west coasts. Anticyclone off south-west Ireland moving south-eastward, and that over Russia either receding eastwards or decreasing in intensity.

Friday, 22nd April, 1904.

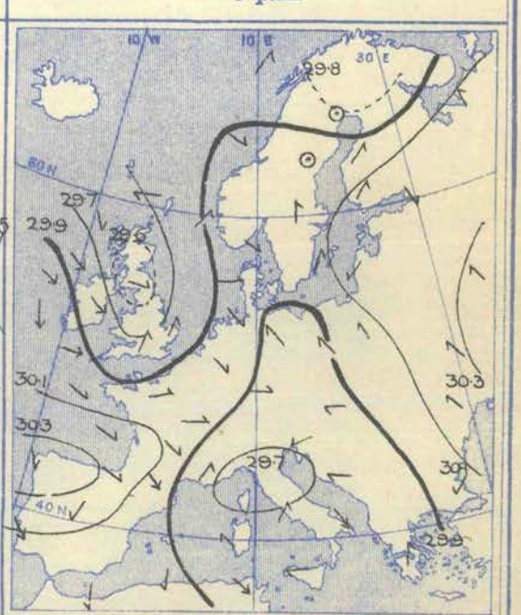
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in Portugal; cloudy or overcast in almost all other parts of our area. Rain falling at many of our own western stations, in Finland, portions of Scandinavia, and also at Bilbao, Algeria, and in the north of Italy. Fog prevailing over the Baltic and at several stations in central Europe. Rain experienced later over the United Kingdom and in various parts of the Continent. Largest amounts, 0·6 in. in London, 0·9 in. at Rome, and 1·0 in., with thunder and lightning, at Vienna.

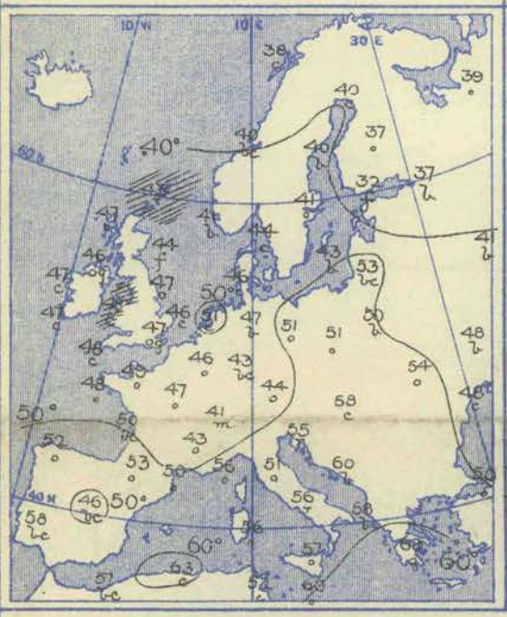
Temperature changed irregularly. Readings at 8 a.m. highest, 65° at Patras, 64° at Palma, and 62° in Portugal, at Malta, and Brindisi. Lowest, 36° at Hernösand, 37° at Stockholm and Moscow, 39° at Cracow, 43° at Aberdeen and Brussels, and 44° at Madrid. Rising later to 58° and 59° respectively at Nairn and Leith, to 66° at Berlin, and to 70° or above in the Mediterranean regions and at Buda-Pesth. Highest value, 77° at Athens.

Wind at 8 a.m. showing light or moderate anticyclonic movements both over the south-west and east of our area, and partial or complete cyclonic circulations over the intervening regions and the United Kingdom. Little strength as a whole, but Westerly current strong to a moderate gale on the west coast of Ireland. Wind veering to the North-Westward all along our western coasts by evening, and increasing to a moderate gale in many places.

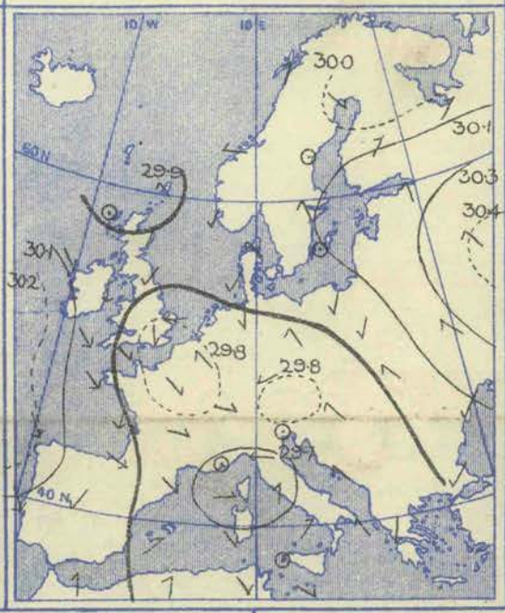
Barometer at 8 a.m. ranging from above 30·5 ins. in a large anticyclone centred over Russia, and but little lower in a smaller area over the Bay of Biscay, to 29·9 ins. and less in a depression over the Gulf of Finland, to 29·7 ins. and less in another over Italy, and to below 29·5 ins. in a third disturbance approaching our north-west coasts. Latter travelling south-eastwards to the north-east of Great Britain during day, the Italian disturbance moving northwards, and that in the north disappearing. Both anticyclonic systems giving way somewhat.

Saturday, 23rd April, 1904.

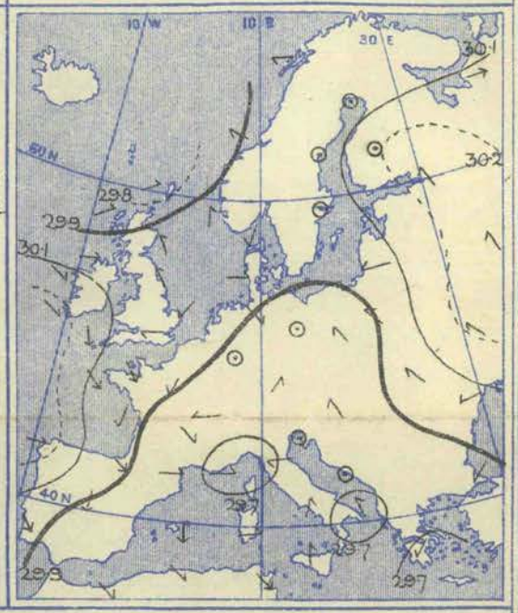
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in a few isolated places, but cloudy or very dull generally. Rain falling at Dungeness, Bilbao, Rome, Trieste, and Copenhagen, and fog prevailing at Aberdeen and over the Gulf of Finland. Light rain later in many parts of our Islands and in various other northern localities, and heavy falls at some Spanish, Italian, and Algerian stations. Largest amounts, 1·5 ins. at Nemours.

Temperature risen over central Europe and the Baltic, but changed irregularly over our own area as a whole. Readings at 8 a.m. ranging from 63° at Patras and Algiers, and about 60° at several other southern stations, and 58° at Buda Pesth to 47° at Paris and in London, 46° at Madrid, 41° at Moscow, 37° at St. Petersburg, and 32° at Hangö and Helsingfors. Rising later to 59° at Portland Bill, to about 70° in several parts of central Europe, and at Nice, and to 77° at Oran.

Wind at 8 a.m. showing several partial or complete cyclonic circulations over central Europe and the greater part of these Islands. Only moderate in force generally, but Northerly current fresh or strong on our western coasts, and over the Bay of Biscay. Light anticyclonic airs prevailing over eastern and northern Europe. No great change later except on our north-west coasts where wind backed to the Westward.

Barometer at 8 a.m. ranging from above 30·4 ins. in an anticyclone over Russia, and 30·2 ins. and upwards off our south-west coasts to less than 29·9 ins. in a depression over the extreme north of Scotland and the Shetlands, to less than 29·8 ins. in minima lying respectively over our south-eastern counties and their neighbourhood, and over central Europe, and to below 29·7 ins. in a disturbance embracing the major portion of Italy and the adjacent Isles of Sardinia and Corsica. Another depression approaching our most northern coasts later, and those over our south-eastern counties and central Europe dispersing.

IV.—GENERAL NOTES, etc.

An anticyclone of varying intensity but always of considerable size prevailed over Russia during the entire week, while except for a brief time about the middle of the period, when pressure was highest off the west of Ireland, there was another anticyclone in the extreme south-west of our area. The depressions observed were not of great depth and were mostly confined to the most north-western regions and to the Mediterranean and Italy. By Wednesday, however, the southern disturbances extended northwards to central Europe and the Netherlands. The winds varied a good deal in direction; it occasionally blew strongly or with the force of a slight gale from the Northward or North-Westward on our own western and northern coasts, and the circulation round the southern depressions was also rather strong at times, but taken as a whole, the winds were light or moderate. Not much rain was experienced over Europe generally, but some fell almost daily on our own north-western coasts, and towards the end of the week, rainy weather extended to the whole of the United Kingdom and the west and north of France. Larger but less frequent falls also occurred in various parts of southern Europe and Algeria. Temperature fluctuated a good deal, but was mainly higher than of late, especially in the extreme north of Europe and Russia. At St. Petersburg a maximum of 63° was recorded on the 20th, and even in the north of Sweden the thermometer touched 50°. The nights were without severe frost except in the most northern parts of Sweden and in a few localities of central and eastern Europe.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 92.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNESS	35·8	− 0·1	35	0	SHEFFIELD	29·5	—	30	—	WESTBOURNE	50·5†	+ 6·9	52†	+ 7
STRATHPEFFER SPA	35·5	+ 1·4	35	+ 1	WORKSOP	36·3	+ 5·0	37	+ 5	VENTNOR HOSPITAL	48·0	+ 3·5	49	+ 4
EDINBURGH	22·8	− 7·3	23	− 7	THURCASTON	42·6	+ 9·4	43	+ 10	BOURNEMOUTH	44·0	—	45	—
COCKLE PARK	38·5	—	39	—	MARGATE	47·9	+ 10·4	49	+ 11	MARLBOROUGH	38·1	+ 3·6	39	+ 4
NEWCASTLE-ON-TYNE	37·1	—	37	—	BROADSTAIRS	50·2	—	51	—	SOUTHPORT	52·9	—	53	—
YORK	41·0	+ 8·1	41	+ 8	RAMSGATE	51·3	—	52	—	RHYL	57·3	—	58	—
SKEGNESS	63·1	—	64	—	EASTBOURNE	50·2	+ 8·2	51	+ 8	ABERDOVEY	53·6†	—	54†	—
CROMER	53·6	—	54	—	BRIGHTON	46·6	+ 4·8	48	+ 5	TENBY	60·1	+ 15·3	61	+ 16
LOWESTOFT	52·2	—	53	—	WORTHING	48·1	—	49	—	TORQUAY	58·4	+ 16·8	61	+ 17
DUNMOW	42·2	—	43	—	BOGNOR	48·1†	—	49†	—	NEWQUAY	48·6	+ 6·4	50	+ 7
										GUERNSEY	52·6†	+ 5·1	54†	+ 5

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values below must be substituted for those which have already appeared.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Twenty Seventh Year No. 3, p. 14	Scilly	—	—	—	—	—	—	—	—	—	0·17	− 0·61	—	—	—	—
" " " " p. 18	York	—	—	—	—	—	—	—	—	—	—	—	12·8	+ 5·2	23	+ 9
" " " No. 4, p. 20	Aberdeen	—	—	—	—	—	—	—	—	—	0·48	− 0·05	—	—	—	—
" " " " "	Shields	—	—	—	—	—	—	—	—	4	0·31	− 0·06	—	—	—	—
" " " " "	Hereford	—	—	45·4	—	40·6	+ 1·7	10	28	—	—	—	—	—	—	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 17. SEVENTEENTH WEEK, ENDING SATURDAY, APRIL 30TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 98.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	**0.** SCOTLAND, NORTH	56	33	48·8	38·6	43·5	1 below	25	− 7	10	− 3	178	− 40	459	− 56
	1. SCOTLAND, EAST	60	33	53·9	39·9	46·5	1 above	40	0	6	− 7	217	− 68	563	− 2
	2. ENGLAND, N.E.	66	35	57·5	43·4	50·1	4 above	57	+19	0	− 9	269	− 21	429	− 45
	3. ENGLAND, EAST	65	33	57·3	43·3	50·0	2 above	56	+ 6	0	− 9	305	− 63	404	−116
	4. MIDLAND COUNTIES	64	32	55·8	42·8	49·0	2 above	49	− 2	0	− 11	302	− 91	465	− 62
	5. ENGLAND, SOUTH	65	31	54·9	43·0	48·7	0 (average)	47	− 8	0	− 5	338	− 84	345	− 45
Principal Grazing Districts.	**6.** SCOTLAND, WEST	57	36	51·8	41·9	46·6	0 (average)	33	−10	0	− 8	241*	− 66	367*	− 36
	7. ENGLAND, N.W.	60	36	53·3	43·9	48·4	1 above	45	0	0	− 7	246	− 78	386	− 2
	8. ENGLAND, S.W.	61	32	54·1	44·2	48·9	0 (average)	48	− 3	0	− 4	398	− 37	252	− 48
	9. IRELAND, NORTH	60	35	52·0	42·7	47·2	0 (average)	36	− 9	0	− 6	277	−106	334	− 12
	10. IRELAND, SOUTH	62	39	55·3	44·5	49·6	1 above	53	0	0	− 4	416	− 77	232	− 19
	— CHANNEL ISLANDS	58	42	54·7	45·8	50·1	0 (average)	57	− 1	0	− 1	521	− 23	80	− 41

Rainfall.

	DISTRICTS. (See p. 98.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	**0.** SCOTLAND, NORTH	7	24	18 more	85	+ 9	19·6	+ 3·4
	1. SCOTLAND, EAST	5	3	1 less	74	+11	9·3	+ 0·3
	2. ENGLAND, N.E.	2	1	3 less	67	+ 8	6·5	− 0·3
	3. ENGLAND, EAST	2	1	3 less	64	+ 3	6·9	+ 0·4
	4. MIDLAND COUNTIES	2	1	4 less	74	+18	8·9	+ 1·3
	5. ENGLAND, SOUTH	2	1	3 less	72	+15	10·1	+ 1·8
Principal Grazing Districts.	**6.** SCOTLAND, WEST	6	13	7 more	77	+12	18·2	+ 2·6
	7. ENGLAND, N.W.	5	5	1 more	74	+13	11·5	+ 2·1
	8. ENGLAND, S.W.	2	4	2 less	75	+11	13·9	+ 2·3
	9. IRELAND, NORTH	6	5	1 less	90	+16	13·2	+ 2·7
	10. IRELAND, SOUTH	4	3	3 less	85	+17	15·0	+ 2·1
	— CHANNEL ISLANDS	2	1	3 less	81	+12	14·4	+ 4·4

Bright Sunshine.

	DISTRICTS. (See p. 98.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	**0.** SCOTLAND, NORTH	23	−12	22	−12	278	− 43	22	− 3
	1. SCOTLAND, EAST	29	− 7	28	− 7	314	− 45	25	− 4
	2. ENGLAND, N.E.	33	− 5	32	− 5	335*	− 51	26	− 4
	3. ENGLAND, EAST	32	− 9	32	− 9	375	− 50	29	− 4
	4. MIDLAND COUNTIES	29	−11	28	−11	308	− 46	24	− 4
	5. ENGLAND, SOUTH	29	−12	29	−12	364	− 43	28	− 3
Principal Grazing Districts.	**6.** SCOTLAND, WEST	27	− 9	26	− 9	299*	− 65	23	− 5
	7. ENGLAND, N.W.	28	− 6	27	− 6	316	− 32	24	− 3
	8. ENGLAND, S.W.	25	−18	25	−18	360	− 74	28	− 6
	9. IRELAND, NORTH	17	−20	17	−19	295	− 67	23	− 5
	10. IRELAND, SOUTH	25	−16	24	−15	327	− 85	25	− 7
	— CHANNEL ISLANDS	39	−10	39	−10	443*	− 53	34	− 4

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather was very unsettled during the whole week on our extreme north and north-west coasts, in which regions rain fell almost daily. Elsewhere it was generally dry, with much sunshine during the earlier days, and again in some of the more western localities at the end of the week, but over the Kingdom as a whole the latter part of the week was overcast or very cloudy.

Temperature differed very little from the mean in the western half of our Islands and the south of England, but in the central and eastern districts of Great Britain it ranged from 1° to 4° above it, while in Scotland N. it was 1° below. The highest of the maxima were recorded on rather variable dates, and varied from 66° in England N.E. and 65° in England E. and S., to 58° in the Channel Islands, and to 56° in Scotland N. The lowest of the minima, which were registered on Tuesday, ranged from 31° in England S. (at Tunbridge Wells) and 32° in the Midland Counties and England S.W., to 39° in Ireland S., and to 42° in the Channel Islands.

Rainfall was greatly in excess of the mean in Scotland N. and W. and slightly so in England N.W., but elsewhere the fall was less than the normal. Over the east, centre, and south of England and in the Channel Islands there was no more than a tenth of an inch.

Bright Sunshine was deficient throughout the Kingdom, especially in Ireland and the south-west of England. The percentage of the possible duration ranged from 39 in the Channel Islands and 32 in England E. and N.E., to 22 in Scotland N. and 17 in Ireland N.

Barometer and Wind. Barometric pressure was highest off our south-west coasts and over the Bay of Biscay, and lowest in a series of depressions that appeared off our north-western coasts and travelled away towards Scandinavia. The winds were consequently between South-West and West or North-West; they were generally only moderate in force, but during the easterly passage of a disturbance on Monday, and again on Saturday, slight gales were experienced on several parts of our north-eastern and north-western coasts.

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II.—DATA from which the SUMMARY on page 97 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	50	35	45·0	37·0	40·8	− 2·0	8	18	7	1·81	+ 1·37	*	*	*	*
	Stornoway	51	34	48·3	38·4	43·1	− 1·4	23	10	7	2·34	+ 1·78	26·4	− 12·9	25	− 12
	Wick	56	33	50·0	36·6	43·0	− 1·8	30	15	7	1·86	+ 1·47	*	*	*	*
	Lairg Ⓢ	55	33	49·6	38·4	43·7	0·0	27	10	7	2·16	+ 1·63	*	*	*	*
	Glencarron Ⓢ	51	35	47·6	38·0	42·6	− 2·0	21	11	7	4·84	+ 3·81	*	*	*	*
	Fort Augustus Ⓢ	54	35	50·5	39·9	45·0	− 1·2	30	6	7	1·17	+ 0·70	18·7	− 9·9	18	− 9
	Fort William	53	39	50·4	41·9	46·0	− 0·7	28	0	7	2·60	+ 1·80	15·2	− 19·8	15	− 19
1. SCOTLAND, E.	Nairn	56	34	53·0	39·0	45·7	− 0·1	39	8	6	0·35	+ 0·01	*	*	*	*
	Aberdeen	60	35	55·1	40·6	47·5	+ 2·1	44	4	5	0·41	− 0·05	27·6	− 11·1	26	− 11
	Braemar Ⓢ	54	33	50·2	37·1	43·3	+ 0·7	30	14	4	0·43	− 0·08	*	*	*	*
	Ochtertyre Ⓢ	60	35	55·1	40·4	47·4	+ 1·0	45	4	6	0·37	− 0·16	*	*	*	*
	Leith	59	37	55·9	42·4	48·8	+ 2·0	48	0	3	0·14	− 0·21	*	*	*	*
	Marchmont Ⓢ	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2. ENGLAND, N.E.	Alnwick Castle	64	38	57·9	42·7	49·9	+ 5·2	55	0	2	0·07	− 0·39	*	*	*	*
	Durham	66	37	57·3	42·3	49·4	+ 4·0	52	0	1	0·02	− 0·42	34·1	+ 1·5	33	+ 1
	Shields	62	39	57·4	44·0	50·4	+ 4·2	59	0	2	0·15	− 0·21	*	*	*	*
	Scarborough Ⓜ	63	36	59·9	43·3	51·2	+ 5·1	64	0	2	0·07	− 0·35	36·5	—	35	—
	Spurn Head	60	40	56·6	44·1	50·1	+ 3·8	57	0	2	0·07	− 0·26	*	*	*	*
	Lincoln	64	35	57·9	43·8	50·5	+ 2·7	60	0	3	0·10	− 0·27	*	*	*	*
	Fulbeck (Lincolnshire)	62	35	55·7	43·9	49·5	+ 2·3	53	0	1	0·01	− 0·39	35·3	—	35	—
3. ENGLAND, E.	Hillington Ⓜ	64	37	58·4	43·4	50·5	+ 3·0	60	0	3	0·11	− 0·29	26·1	− 14·1	26	− 14
	Yarmouth	64	37	55·6	43·7	49·4	+ 3·0	52	0	3	0·07	− 0·31	*	*	*	*
	Geldeston	65	33	58·4	42·0	49·8	+ 2·4	55	0	2	0·05	− 0·31	30·8	− 11·6	30	− 11
	Cambridge	62	33	58·4	42·7	50·2	+ 1·6	57	0	2	0·05	− 0·31	34·8	− 5·5	34	− 5
	Felixstowe	65	35	58·2	43·7	50·6	+ 3·0	60	0	3	0·12	—	32·3†	—	22†	—
	Clacton-on-Sea	60	35	56·6	43·3	49·6	+ 1·8	53	0	2	0·07	—	37·1†	—	37†	—
	Rothamsted	61	36	56·4	43·3	49·5	+ 2·2	53	0	2	0·04	− 0·40	33·0	− 5·6	33	− 6
	Shoeburyness	60	36	56·6	44·1	50·1	+ 1·8	57	0	0	0·00	− 0·30	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	60	35	54·8	41·9	48·0	+ 2·2	42	0	2	0·11	− 0·36	34·3	—	33	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	61	37	55·7	44·4	49·8	+ 1·7	55	0	4	0·07	− 0·36	32·3	—	32	—
	Colly Weston (Stamford)	62	34	57·6	42·9	49·9	+ 1·8	55	0	4	0·05	− 0·34	*	*	*	*
	Cheadle Ⓜ	60	35	53·2	41·9	47·3	+ 0·9	38	0	4	0·24	− 0·23	*	*	*	*
	Birmingham (Edgbaston)	63	37	55·3	43·4	49·1	+ 2·0	50	0	1	0·03	− 0·43	19·2	—	19	—
	Shrewsbury	63	36	56·3	43·3	49·5	+ 1·5	53	0	2	0·09	—	*	*	*	*
	Hereford Ⓜ	64	35	57·5	43·3	50·1	+ 1·8	57	0	1	0·01	− 0·41	*	*	*	*
	Cirencester	62	32	55·0	40·4	47·4	+ 0·3	45	4	1	0·03	− 0·42	25·1	− 15·2	25	− 15
	Oxford	63	37	56·9	44·1	50·2	+ 1·6	57	0	1	0·02	− 0·35	29·2	− 9·6	29	− 10
5. ENGLAND, S.	London	61	35	56·7	43·1	49·6	− 0·3	53	0	1	0·07	− 0·31	24·9‡	− 9·2‡	25‡	− 9‡
	Wisley	65	34	57·1	43·1	49·8	− 0·4	55	0	2	0·10	—	24·8	—	25	—
	Swarraton (Alresford) Ⓜ	59	34	54·7	41·0	47·5	+ 0·3	43	3	1	0·20	− 0·24	*	*	*	*
	Tunbridge Wells Ⓜ	58	31	54·3	41·3	47·5	− 0·8	41	2	2	0·18	—	33·4	—	33	—
	Dungeness	57	35	53·9	42·3	47·8	− 0·4	41	0	1	0·06	− 0·24	33·8	—	33	—
	Hastings (St. Leonards)	57	38	53·4	43·7	48·3	− 0·2	44	0	2	0·24	− 0·16	30·2	− 15·2	30	− 15
	Southampton	63	39	58·3	44·5	51·1	+ 1·1	64	0	1	0·11	− 0·33	33·1	− 10·1	33	− 10
	Portland Bill	56	42	52·7	45·1	48·7	− 0·7	47	0	2	0·08	—	*	*	*	*
	Shaftesbury Ⓜ	57	35	53·1	42·8	47·7	+ 0·1	40	0	3	0·15	− 0·39	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	54	38	51·2	41·9	46·3	− 0·9	31	0	7	3·29	+ 2·45	*	*	*	*
	Glasgow	53	38	50·4	42·2	46·1	− 0·3	29	0	6	0·65	+ 0·15	30·5	− 2·3	29	− 2
	Cally Ⓢ	57	36	53·7	40·9	47·0	+ 0·2	40	3	6	1·19	+ 0·59	*	*	*	*
	Aspatria	54	37	51·2	41·8	46·3	+ 0·2	31	1	5	0·60	—	19·4	—	19	—
	Douglas (Isle of Man)	55	39	52·4	42·8	47·4	+ 0·5	38	0	6	0·64	+ 0·11	30·3	− 15·2	29	− 14
7. ENGLAND, N.W.	Newton Rigg	57	36	52·6	41·1	46·6	+ 1·5	36	3	6	0·37	—	26·1	—	25	—
	Stonyhurst	54	37	51·2	42·6	46·7	− 0·3	33	0	6	1·40	+ 0·84	31·6	− 6·4	31	− 6
	Blackpool Ⓜ	56	41	52·6	44·0	48·1	+ 0·6	43	0	5	0·49	+ 0·06	32·9	− 5·8	32	− 6
	Manchester (Prestwich)	58	37	53·5	43·1	48·1	+ 1·0	43	0	6	0·51	+ 0·04	23·1	—	22	—
	Liverpool Obsy. (Bidston)	56	41	53·1	45·0	48·9	+ 0·6	48	0	5	0·17	− 0·20	25·5	—	25	—
	Chester (Hawarden Bridge)	60	39	56·0	45·9	50·7	+ 1·9	61	0	3	0·09	—	*	*	*	*
	Llandudno Ⓜ	57	42	53·9	45·7	49·6	+ 1·1	58	0	3	0·23	− 0·18	33·3	− 6·1	33	− 6
	Holyhead	56	41	52·6	43·7	47·9	− 0·3	41	0	4	0·51	+ 0·07	*	*	*	*
	Bettws-y-Coed	58	37	54·1	44·1	48·9	+ 1·0	48	0	4	0·77	—	23·0	—	23	—
8. ENGLAND, S.W.	Pembroke	53	43	50·3	45·3	47·7	+ 0·1	40	0	2	0·20	− 0·24	31·4	− 13·9	31	− 14
	Clifton	59	39	55·4	45·4	50·2	+ 1·8	57	0	3	0·42	− 0·10	*	*	*	*
	Bath	59	35	55·7	43·7	49·4	+ 0·3	52	0	1	0·15	− 0·31	23·6	—	23	—
	Arlington (N. Devon)	53	35	51·9	41·7	46·6	− 0·4	33	1	3	1·14	+ 0·48	*	*	*	*
	Cullompton Ⓜ	61	32	57·4	43·5	50·1	+ 0·8	57	0	2	0·03	− 0·50	21·0	− 18·6	21	− 18
	Falmouth	55	41	53·3	45·3	49·1	− 0·1	50	0	3	0·51	− 0·12	26·5	− 19·5	27	− 20
	Plymouth	57	36	54·4	44·7	49·3	− 0·8	51	0	3	0·27	− 0·24	22·5	− 21·0	23	− 21
9. IRELAND N.	Malin Head	52	35	49·0	40·7	44·7	− 2·6	24	4	7	0·57	+ 0·12	*	*	*	*
	Edenfel (Omagh)	55	38	51·1	42·1	46·4	0·0	31	0	7	0·53	− 0·01	*	*	*	*
	Blacksod Point	53	41	50·7	44·4	47·4	− 1·1	38	0	7	0·66	+ 0·02	*	*	*	*
	Markree Castle	60	39	54·6	43·3	48·7	+ 1·5	47	0	6	0·46	− 0·10	16·7	− 20·5	16	− 20
	Armagh	57	39	53·7	42·6	47·9	+ 0·8	41	0	5	0·21	− 0·27	17·2	− 18·8	17	− 18
	Donaghadee	57	37	52·9	43·1	47·8	+ 0·5	41	0	5	0·41	− 0·04	*	*	*	*
10. IRELAND, S.	Dublin	62	40	57·8	44·8	51·0	+ 2·0	63	0	4	0·12	− 0·33	30·7	− 11·1	30	− 11
	Birr Castle	60	39	55·6	45·0	49·0	+ 0·8	49	0	4	0·32	− 0·18	23·1	− 14·9	23	− 15
	Kilkenny	62	39	55·1	43·7	49·1	+ 0·6	50	0	3	0·25	− 0·26	*	*	*	*
	Waterford	60	40	56·3	43·6	49·7	+ 1·7	54	0	2	0·15	− 0·41	*	*	*	*
	Roche's Point	58	41	55·0	45·1	49·8	+ 0·2	55	0	3	0·32	− 0·38	*	*	*	*
	Valencia	56	42	52·1	46·3	49·1	− 0·6	59	0	7	0·62	− 0·19	20·8	− 21·0	21	− 21
	Killarney	61	39	56·6	45·6	50·8	+ 1·3	62	0	2	0·08	− 0·67	*	*	*	*
	Foynes	60	40	53·5	43·9	48·5	+ 0·1	46	0	4	0·34	− 0·22	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	44	54·0	45·9	49·8	0·0	55	0	2	0·14	− 0·31	33·1	− 13·4	33	− 13
	Jersey	58	42	55·4	45·6	50·3	− 0·4	58	0	1	0·13	− 0·31	38·6	− 10·8	39	− 11

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

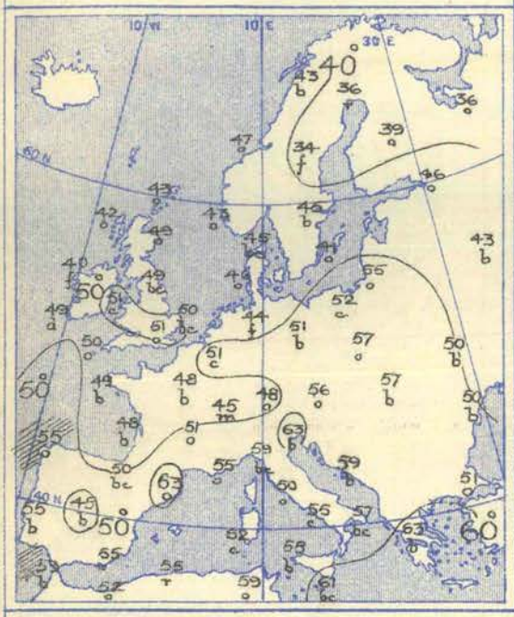
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

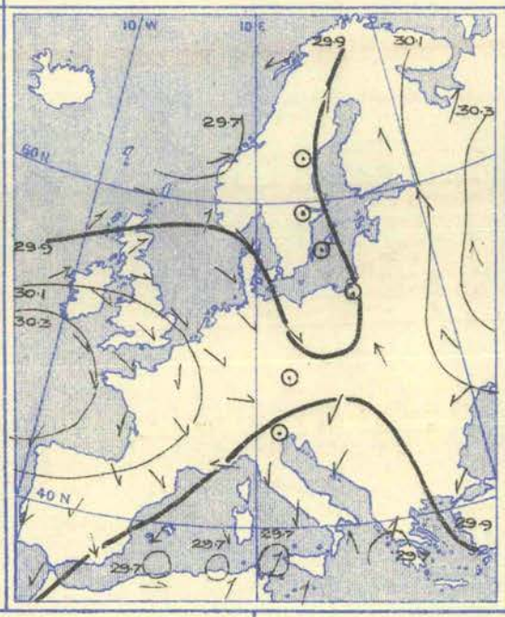
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 24th April, 1904.

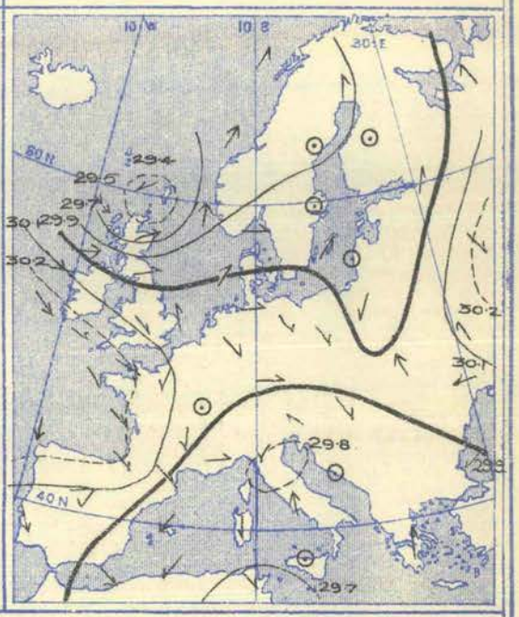
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast in most regions, but fine and bright in many parts of southern and south-eastern Europe. Rainy in Algeria, the south-west of Ireland, and at Helsingfors and Haparanda. Heavy rain falling later in the north of Scotland, in Algeria, and at one or two stations in the south of Europe. Largest amounts, 0·6 in. at Trieste, 0·9 in. at Sumburgh Head, and 1·1 ins. at Nemours.

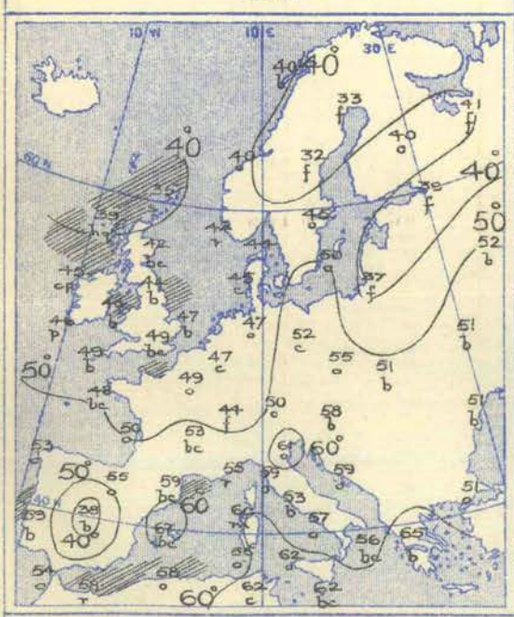
Temperature changed rather irregularly—risen over our Islands. Morning values highest, 63° at Athens, Trieste, and Barcelona, and above 55° at most southern stations, as well as over central Europe. Lowest, 34° at Hernösand, 36° at Archangel, 41° at Wisby, 42° at Stornoway, and 45° at Le Mans, Belfort, and Madrid. Rising to 60° or rather higher at some English stations during day, and to 64° at St. Petersburg. Exceeding 70° over Austria-Hungary, Greece, and at some southern French stations.

Wind at 8 a.m. fresh from South-West on our north-western coasts; moderate from North-West or North over the south-west of our area, light from the Southward in the east and north-east, light and very variable over the greater part of Europe. A well-defined cyclonic circulation—strong to a gale—setting in over our Islands and their neighbourhood during the day, and wind increasing in force at some Mediterranean stations.

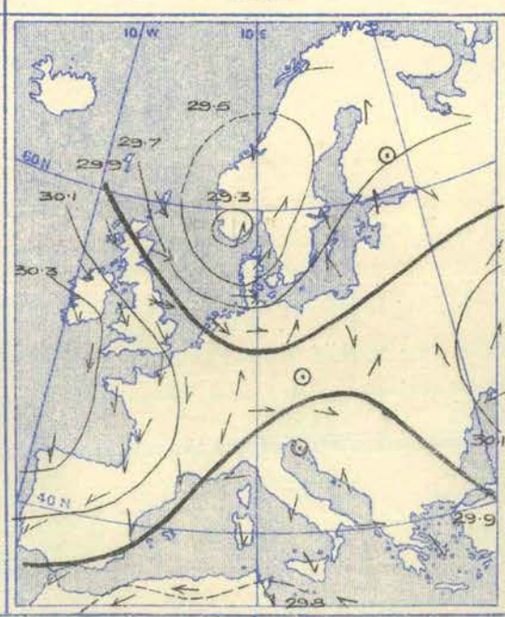
Barometer at 8 a.m. ranging from above 30·3 ins. in an anticyclone over Russia and in a similar system off our south-west coasts and over the Bay of Biscay, to 29·3 ins. and less in a minimum over Bosnia, and below 29·7 ins. in various small centres in the extreme south of our area, and in a large disturbance off the west of Norway. A fresh depression appearing off the north of Scotland by evening, and gradients becoming steep over the north and north-east of the United Kingdom.

Monday, 25th April, 1904.

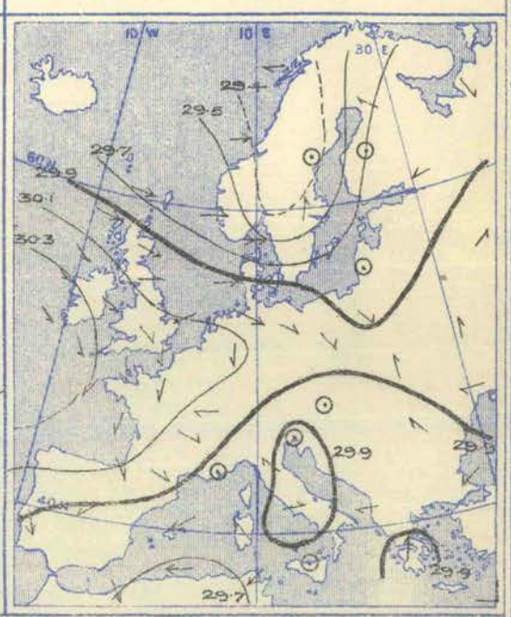
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in many parts of our Islands and in a few localities in southern Europe; cloudy or dull generally, with much fog in Finland and the Gulf of Bothnia, rain in the south of Scandinavia, at Nice, and Oran, showers on our extreme west and north-west coasts, and snow in the Shetlands. Some large quantities of rain falling later in the west of Algeria (1·2 ins. at Nemours), and considerable falls experienced in a few northern parts of our area (0·4 in. at Wick and 0·5 in. at Haparanda).

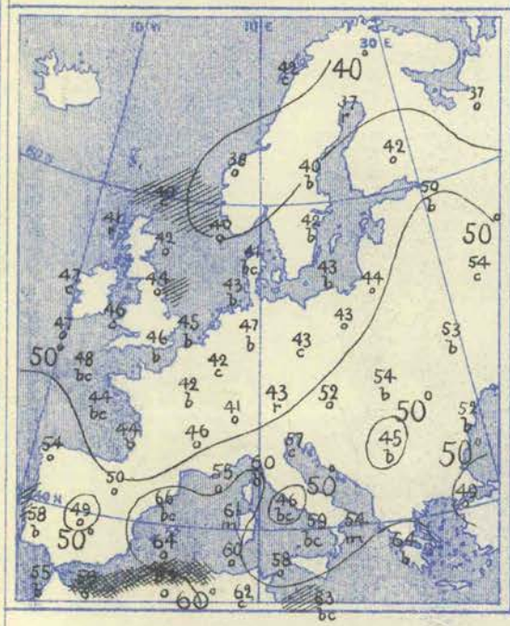
Temperature risen in most southern and eastern regions, fallen elsewhere. Morning readings highest, 67° at Barcelona and Palermo, 65° at Patras, 61° at Trieste, and 59° on the coast of Portugal. Lowest, 32° at Hernösand, 35° at Sumburgh Head, 38° at Madrid, and 39° at Memel and St. Petersburg. Maxima during day, 58° at Roche's Point and Paris, above 60° in many parts of France and Germany, and above 70° at many Austrian, Spanish, and Grecian stations, as well as at Marseilles and Croisette.

Wind at 8 a.m. showing an extensive cyclonic circulation around the south-west of Norway: North-Westerly to Westerly current strong to a gale on our north and north-west coasts, over the North Sea, and Denmark. Light and rather variable breezes over eastern and southern Europe. Wind decreasing somewhat in force over our Islands and their immediate vicinity, but increasing in Denmark. Blowing strongly from various directions in Algeria—a gale at Oran and Nemours.

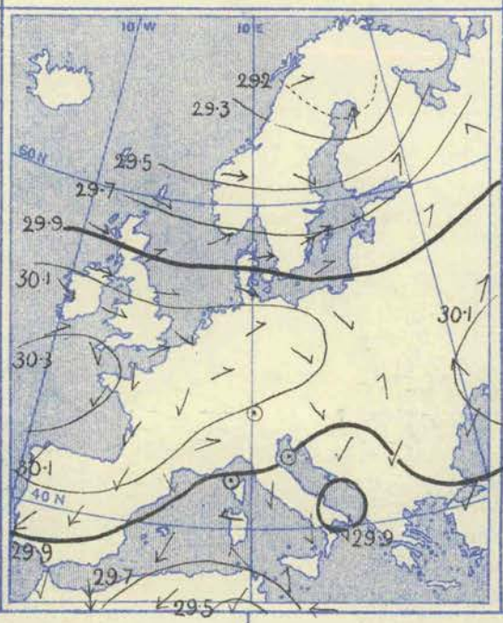
Barometer at 8 a.m. ranging from 30·3 ins. and upwards in a large anticyclone over the south-west of our area, and but little lower in another system over the south of Russia, to below 29·7 ins. in Tunis, and to less than 29·3 ins. in a large depression having its centre near Skudesnaes. Latter disturbance travelling eastwards to central Scandinavia during day. Russian high pressure area either giving way or receding towards Asia, but very little change taking place in the general distribution of pressure.

Tuesday, 26th April, 1904.

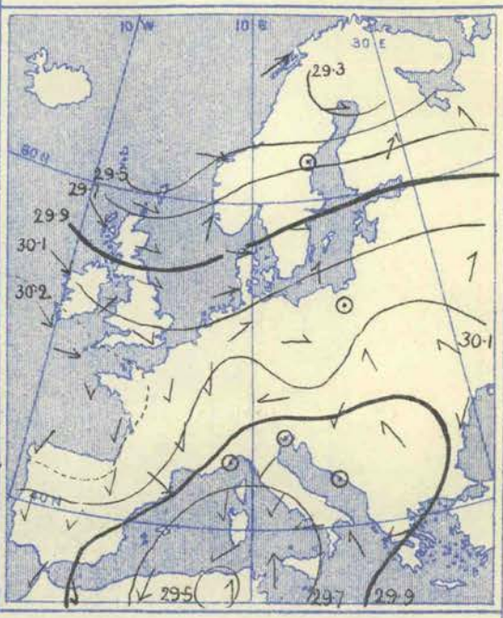
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in many parts of Scandinavia, England, France, Portugal, and the south-east of Europe; cloudy or dull elsewhere. Rain falling at Haparanda, Stornoway, Warsaw, Munich, and Oran. Rain experienced later in various parts of these Islands and at isolated spots on the Continent. Heaviest amounts, 0·4 in. at Stornoway and 0·5 in. at Munich. Larger quantities falling in Algeria—1·0 in. at Algiers and 1·3 ins. at Aumale.

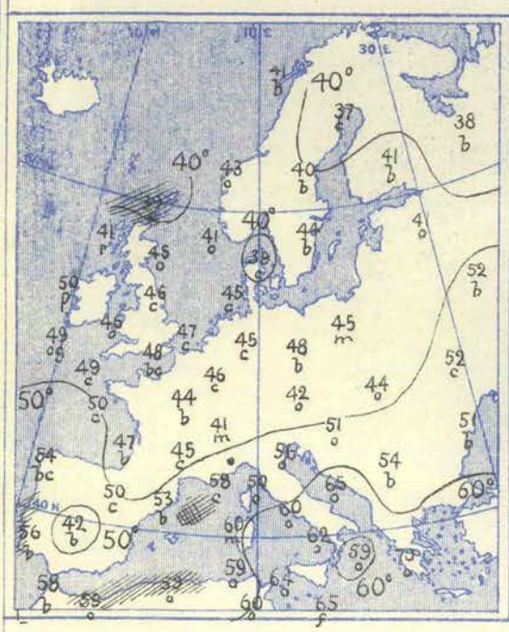
Temperature fallen over central Europe and France; changed irregularly elsewhere. Morning readings highest, 66° at Sfax and Barcelona, 64° at Patras and Palma, and about 60° at many southern stations. Lowest, 37° at Haparanda, 38° at Karlstad and Christiansund, 41° at Belfort, 45° at Hermanstadt, 49° at Madrid, and below that value over the United Kingdom and the greater part of France and Germany. Maxima during day as high as 77° at Palermo, and above 70° in many Mediterranean regions; below 60° over Germany, our Islands, and the northern countries generally, and below 50° at Nottingham.

Wind in morning Westerly to South-Westerly or Southerly over the northern half of our area; strong on our north-west coasts, and fresh or strong to a gale over Scandinavia. Mainly Easterly or North-Easterly over the more southern countries, but drawing into North in places; light or moderate as a whole, but blowing freshly in the Spanish Peninsula, a moderate gale at Palma, and a fresh gale in the west of Algeria. No great change occurring later.

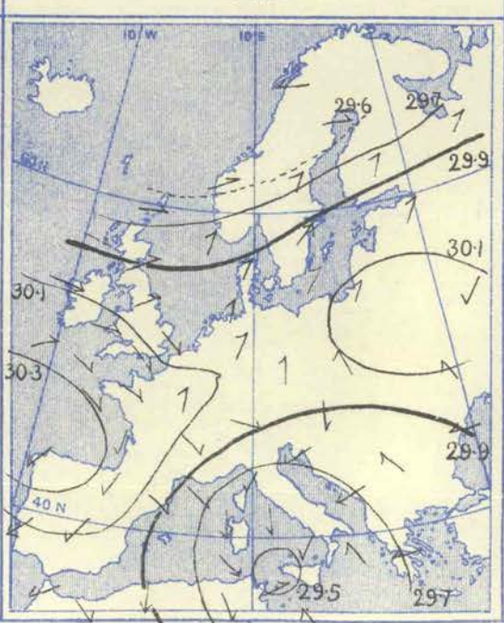
Barometer at 8 a.m. ranging from 30·3 ins. and upwards in an anticyclone over the Bay of Biscay and above 30·1 ins. over the south of Russia, to less than 29·5 ins. in a depression over the east of Algeria and Tunis, and to below 29·2 ins. in another over Lapland. Pressure giving way somewhat in nearly all places during day. Southern depression extending northwards, that in Lapland moving eastwards, and secondary systems appearing off our northern coasts.

Wednesday, 27th April, 1904.

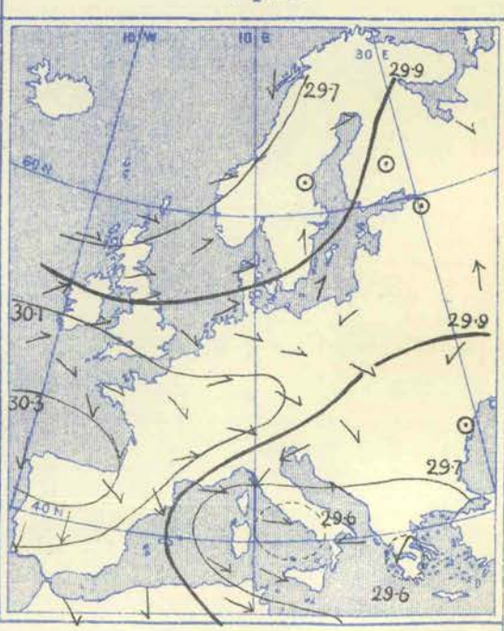
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine over the Gulfs of Bothnia and Finland and in a few other places in different parts of our area, but very cloudy or overcast as a whole. Rain falling on our north-west coasts and also at Warsaw and Pesaro, and fog prevailing at Malta. Some considerable falls of rain experienced later in Scotland, Denmark, the Riviera, and at a few Italian stations.

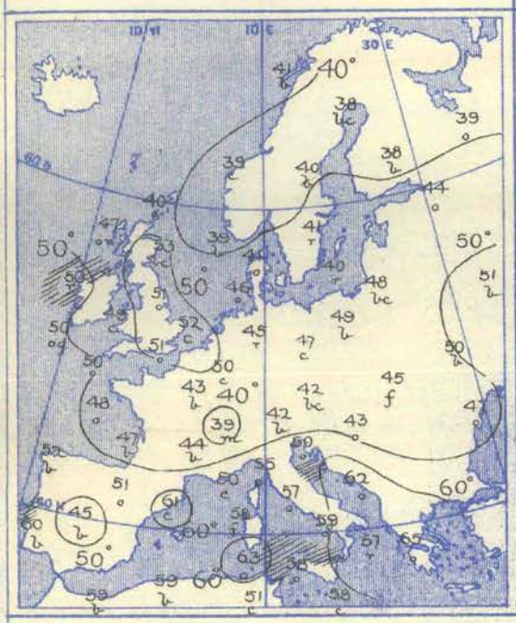
Temperature risen slightly over Italy, Greece, and north-western Europe, fallen in most other regions. Morning readings highest, 70° at Patras, 65° at Lesina and Sfax, and 64° at Barcelona and Palermo. Lowest, 35° at Munich, 37° at Haparanda, 38° at Archangel, and 39° at Skagen and Sumburgh Head; 40° at Limoges and 42° at Madrid. Rising during day to 58° at Roche's Point and Clacton-on-Sea, to between 60° and 70° in the south of France, Italy, and Spain, and to above 70° on some shores of the Mediterranean. Highest values, 77° at Patras and 79° at Sfax.

Wind at 8 a.m. showing a complete cyclonic circulation over the Mediterranean and Italy, the Easterly to Northerly current being fresh or strong in several places. Moderate to fresh or strong winds from some Westerly point prevailing over our Islands, and from the South-Westward in Denmark and Scandinavia. Light anticyclonic airs prevalent over Russia. No great change later, but wind blowing strongly from the North-Westward over the western half of the Mediterranean.

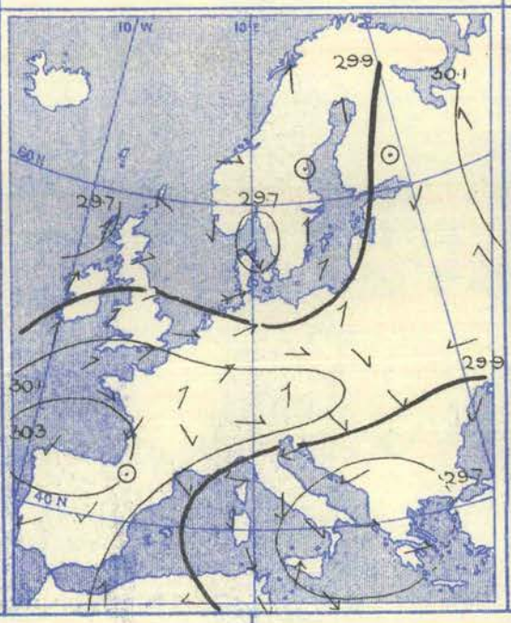
Barometer in morning ranging from 30·3 ins. and upwards in an anticyclone over and to the westward of the Bay of Biscay, and above 30·1 ins. in a similar system over Russia, to 29·6 ins. and less in a depression over the north-west of Scandinavia, and to below 29·5 ins. in another disturbance having its centre between Naples and Palermo. Gradients steep over the south and south-east of France. Mediterranean depression becoming complex later, another minimum appearing over Greece. Pressure increasing over the north of Norway, but decreasing steadily on our north-west coasts.

Thursday, 28th April, 1904.

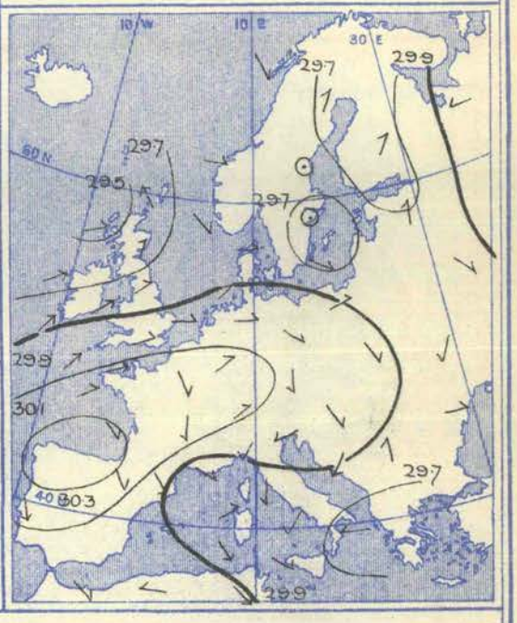
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over the greater part of France, the Iberian Peninsula, and the north of Scandinavia, but cloudy or overcast over Europe generally. Rainy on our most north-western coasts, on the east coast of Italy, at Cuxhaven, and over the Baltic, and snow falling at Karlstad. Rain during the ensuing twenty-four hours in most parts of our Islands, the Netherlands, North Germany, Scandinavia, and Finland, as well as at some Italian stations—largest falls, 0·7 in. at Helsingfors and 1·2 ins. at Naples.

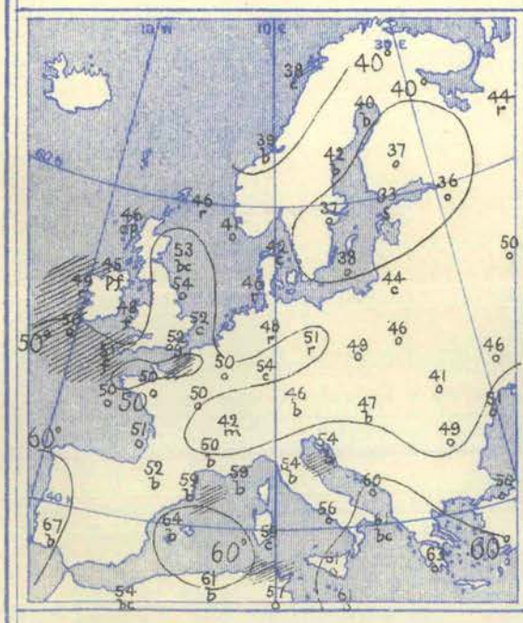
Temperature risen somewhat over the United Kingdom, changed rather irregularly elsewhere. Morning readings highest, 65° at Patras, 63° at Cagliari, 62° at Oporto, and 61° at Barcelona. Lowest, 35° at Karlstad, 38° at Limoges, Warsaw, and Haparanda, 40° in the Shetlands, and 45° at Madrid. Rising during day to nearly 60° at some of our north-eastern, eastern, and southern stations, to between 65° and 70° over the greater part of southern Europe, to 73° at Sfax, and to 75° at Patras. Thermometer touching 66° at St. Petersburg.

Wind strong from the Southward in the north-west of Ireland, and light from that quarter in Scotland, light or moderate from the Westward over England, strong to a gale from the same direction in Denmark, and light and variable over the east, centre, and south-west of our area. A moderate to strong cyclonic circulation prevailing over the Mediterranean and south-eastern Europe. Wind veering somewhat on our north-west coasts during day, and backing towards South-West over England. Very little other change.

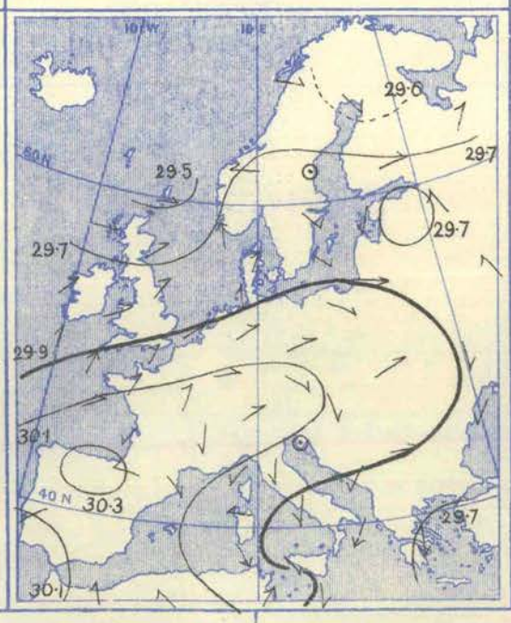
Barometer at 8 a.m. ranging from 30·3 ins. in an anticyclone centred over the Bay of Biscay, and above 30·1 ins. over the north-east of Russia to below 29·7 ins. (1) in a shallow depression over the south of Scandinavia, (2) in a disturbance approaching our north-west coasts, and (3) over the south-east of Europe. North-western depression extending more over the United Kingdom during day, but little change taking place in the general distribution of pressure. Barometer falling over Russia.

Friday, 29th April, 1904.

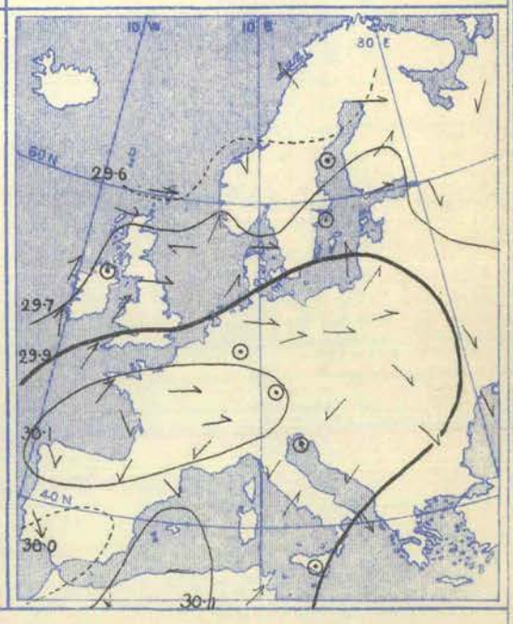
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull generally, but fine and bright in various southern localities. Rainy on our most northern and north-western coasts, Denmark, North Germany, and at Archangel, and snow falling at Hangö. Rain becoming general during the ensuing twenty-four hours over the United Kingdom, but not in large quantity. Some rain also falling over Russia, Scandinavia, North Germany, and Denmark.

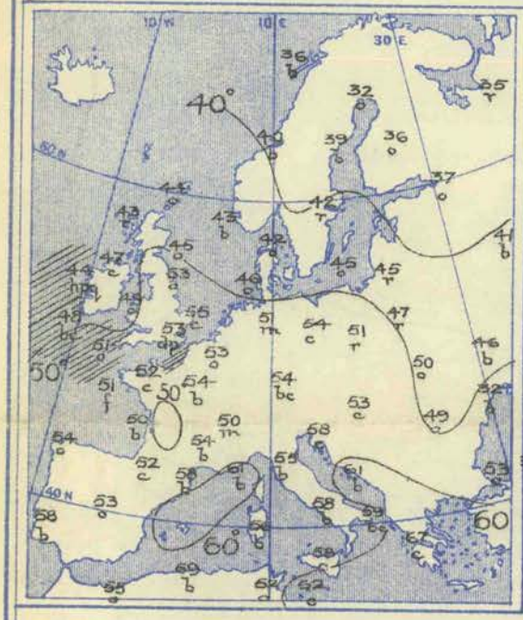
Temperature at 8 a.m. ranging from 67° at Lisbon, 64° at Barcelona, 63° at Patras, and a little above or below 60° in the south generally, to about 50° over our Islands and central Europe, and to 33° on the shores of the Gulf of Finland. Rising later to 60° at Parsonstown and Aberdeen, to 62° at Yarmouth, to about 70° in most parts of southern Europe, 75° at Patras, 77° at Sfax, and 79° at Lisbon. Maxima below 60° at many stations in central Europe.

Wind in morning anticyclonic and of little strength over the south-western and central portion of our area, and cyclonic in the north and south-east. Fresh or strong at some of our own western stations and on different shores of the Mediterranean. Wind backing to the Southward in Ireland by evening, but scarcely any change over our area generally.

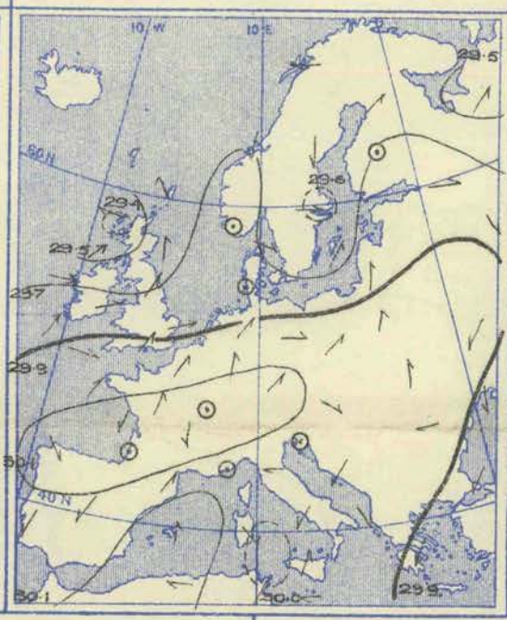
Barometer at 8 a.m. ranging from 30·3 ins. in an anticyclone having its centre over the Bay of Biscay and extending with decreasing energy to central Europe, to 29·7 ins. and less in depressions lying respectively over Greece and the Gulf of Finland, and to below 29·5 ins. in another system to the northward of Scotland. Not much alteration occurring later in the general distribution of pressure, but a new depression approaching Ireland from the westward.

Saturday, 30th April, 1904.

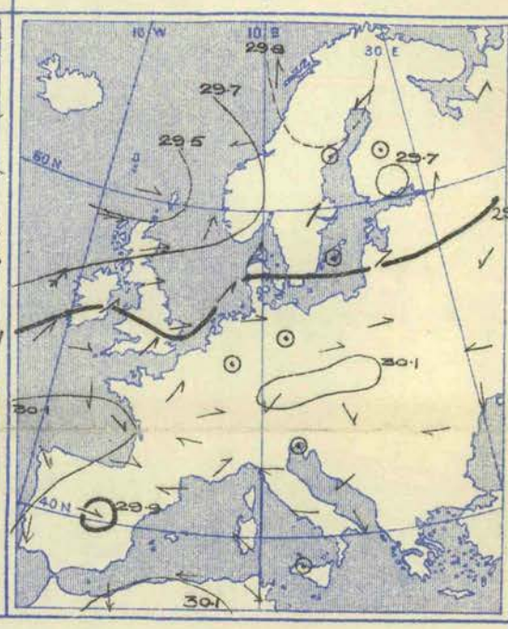
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in Norway and in nearly all the Mediterranean regions; cloudy or dull elsewhere, with rain on our extreme north-west and south-east coasts, and also at Memel, Stockholm, and Archangel. Weather dry during day over our area generally, but some rain experienced in the north of Scotland, the west of Ireland, and in a few scattered places on the Continent.

Temperature showing no definite change. Morning readings highest, 67° at Patras and Barcelona, 63° at Malta, and 61° at Nice and Lésina. Lowest, 32° at Haparanda, below 40° in almost all the northern regions, and below 50° in Poland and at some inland French stations. Rising later to 81° at Madrid, 79° at Sfax, 75° in the south of France, a slightly lower value in Italy, and to between 60° and 70° over the central countries. Highest readings in the United Kingdom, 64° at Yarmouth and 61° at Nottingham.

Wind at 8 a.m. light and anticyclonic over the south-western and central countries of Europe; various partial or complete cyclonic circulations prevailing elsewhere. South-Westerly to Westerly winds strong on our own western coasts. Latter increasing to a fresh gale by evening at Blacksod Point, and wind shifting from East to West at Stornoway and also blowing a gale. Little change elsewhere.

Barometer at 8 a.m. highest, above 30·1 ins. in an anticyclonic band extending from the Atlantic to central Europe; lowest, 29·4 ins. and less in a depression over the Hebrides. Below 29·6 ins. in a disturbance near Stockholm, and less than 30·0 ins. over Sardinia and its vicinity. Northern depressions both moving east-north-eastwards during day, and that over Sardinia partially dispersing and travelling south-eastwards. A baric minimum forming over central Spain.

IV.—GENERAL NOTES, etc.

The general distribution of pressure during this period differed but little from that of the preceding week. Anticyclones of considerable size were situated in the neighbourhood of the Iberian Peninsula and the Bay of Biscay and also over Russia. The two systems were connected by a col stretching across the central countries of Europe. This distribution, with low pressure systems both over the north-western parts of our area and in the Mediterranean regions, continued until towards the end of the week, when it became modified owing to the dispersal or to the retreat eastward of the Russian high pressure. The cyclonic disturbances were sometimes rather deep and of considerable size both in the north and south, and were generally accompanied by fresh or strong winds in their immediate vicinity, and more rarely by slight gales. Scarcely any rain was experienced over the greater part of Europe, but falls were very frequent on our most northern and western coasts and rather so over Scandinavia. Over the the southern parts of our area the rainy days were few although the amounts often rather large. Temperature changed a good deal from day to day, but did not, as a rule, differ very materially from the normal.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 98.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNESS	28·7	- 8·3	27	- 8	SHEFFIELD	38·2	—	37	—	WESTBOURNE	27·9†	- 17·6	28†	- 17
STRATHPEFFER SPA	25·5	- 10·2	24	- 10	WORKSOP	25·0	- 8·4	25	- 8	VENTNOR HOSPITAL	28·6	- 17·9	29	- 18
EDINBURGH	29·5	- 2·6	28	- 3	THURCASTON	24·9	- 10·3	24	- 10	BOURNEMOUTH	29·2	—	29	—
COCKLE PARK	39·3	—	38	—	MARGATE	33·3	- 6·0	33	- 6	MARLBOROUGH	27·6	- 9·2	27	- 9
NEWCASTLE-ON-TYNE	30·4	—	30	—	BROADSTAIRS	34·5	—	34	—	SOUTHPORT	31·8	—	31	—
YORK	24·4	- 10·8	24	- 11	RAMSGATE	35·6	—	35	—	RHYL	29·2	—	29	—
SKEGNESS	29·8	—	29	—	EASTBOURNE	24·6	- 19·8	24	- 20	ABERDOVEY	28·6†	—	28†	—
CROMER	32·2	—	32	—	BRIGHTON	27·4	- 17·2	27	- 17	TENBY	29·6	- 16·7	29	- 17
LOWESTOFT	36·1	—	35	—	WORTHING	26·1	—	26	—	TORQUAY	24·9	- 19·7	25	- 20
DUNMOW	29·0	—	29	—	BOGNOR	30·7†	—	30†	—	NEWQUAY	26·9	- 17·1	27	- 17
										GUERNSEY	45·8†	- 4·5	46†*	- 5

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values below must be substituted for those which have already appeared.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Twenty Seventh Year No. 4, p. 20	Scarborough	—	—	—	32·5	39·4	+ 0·9	—	38	—	—	—	—	—	—	—
" " " " "	Hillington	—	—	—	35·3	40·2	+ 2·8	—	—	—	—	—	—	—	—	—
" " " " "	Tunbridge Wells	—	—	—	34·5	38·9	+ 1·1	—	28	—	—	—	—	—	—	—
" " " " "	Shaftesbury	—	—	—	35·6	39·9	+ 1·9	—	—	—	—	—	—	—	—	—
" " " " "	Pembroke	59	—	47·4	—	44·2	+ 1·9	21	—	—	—	—	—	—	—	—
" " " No. 16, p. 96	Cockle Park	—	—	—	—	—	—	—	—	—	—	—	48·5	—	49	—

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TWENTY-SEVENTH YEAR. Vol XXI. (New Series.) No. 18. EIGHTEENTH WEEK, ENDING SATURDAY, MAY 7TH, 1904. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 104.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	61	33	49·9	39·0	44·1	2 below	27	−10	8	− 3	205	− 50	467	− 59
	1. SCOTLAND, EAST	64	34	51·5	38·4	44·6	2 below	33	−12	10	− 1	251*	− 79	573	− 3
	2. ENGLAND, N.E.	63	36	55·5	41·2	47·9	1 above	45	+ 1	2	− 5	314	− 20	431	− 50
	3. ENGLAND, EAST	65	38	55·9	43·0	49·1	1 above	50	− 6	0	− 7	355	− 69	404	−123
	4. MIDLAND COUNTIES	62	31	55·6	39·9	47·3	1 below	46	−11	6	− 2	348	−102	471	− 64
	5. ENGLAND, SOUTH	65	32	55·5	42·9	48·8	1 below	48	−14	0	− 4	386	− 98	345	− 49
Principal Grazing Districts.	6. SCOTLAND, WEST	59	34	52·2	39·7	45·6	2 below	35	−14	6	0	276	− 80	373	− 36
	7. ENGLAND, N.W.	61	36	53·7	42·1	47·6	1 below	39	−12	0	− 5	285	− 90	386	− 7
	8. ENGLAND, S.W.	64	34	53·8	42·4	47·7	2 below	40	−17	0	− 3	438	− 54	252	− 51
	9. IRELAND, NORTH	56	33	51·9	41·0	46·2	2 below	34	−16	3	− 2	311	−122	337	− 14
	10. IRELAND, SOUTH	64	34	54·2	42·4	48·0	2 below	42	−16	0	− 3	458	− 93	232	− 22
	— CHANNEL ISLANDS	64	43	56·1	46·5	51·0	0 (average)	63	− 2	0	0	584	− 25	80	− 41

Rainfall.

	DISTRICTS. (See p. 104.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	13	7 more	92	+18	20·9	+ 4·1
	1. SCOTLAND, EAST	6	12	8 more	80	+14	10·5	+ 1·0
	2. ENGLAND, N.E.	5	10	6 more	72	+ 9	7·5	+ 0·3
	3. ENGLAND, EAST	5	8	4 more	69	+ 5	7·7	+ 0·8
	4. MIDLAND COUNTIES	4	5	0 (average)	78	+19	9·4	+ 1·4
	5. ENGLAND, SOUTH	5	7	2 more	77	+18	10·8	+ 2·1
Principal Grazing Districts.	6. SCOTLAND, WEST	6	14	8 more	83	+15	19·6	+ 3·3
	7. ENGLAND, N.W.	5	5	0 (average)	79	+15	12·0	+ 2·1
	8. ENGLAND, S.W.	5	11	6 more	80	+13	15·0	+ 2·9
	9. IRELAND, NORTH	6	10	5 more	96	+18	14·2	+ 3·2
	10. IRELAND, SOUTH	6	15	9 more	91	+19	16·5	+ 3·0
	— CHANNEL ISLANDS	7	7	3 more	88	+16	15·1	+ 4·6

Bright Sunshine.

	DISTRICTS. (See p. 104.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	30	− 6	28	− 6	308	− 49	22	− 4
	1. SCOTLAND, EAST	32	− 5	30	− 5	349*	− 48	25	− 3
	2. ENGLAND, N.E.	41	0	39	0	376	− 50	27	− 4
	3. ENGLAND, EAST	40	− 4	38	− 4	415	− 53	30	− 4
	4. MIDLAND COUNTIES	40	− 2	38	− 2	348	− 47	25	− 3
	5. ENGLAND, SOUTH	35	− 8	33	− 8	399	− 51	28	− 4
Principal Grazing Districts.	6. SCOTLAND, WEST	35	− 5	33	− 5	334	− 70	24	− 5
	7. ENGLAND, N.W.	37	− 1	35	− 1	353	− 34	25	− 2
	8. ENGLAND, S.W.	26	−21	25	−21	386	− 95	27	− 7
	9. IRELAND, NORTH	31	− 8	30	− 7	326	− 75	23	− 5
	10. IRELAND, SOUTH	32	−11	31	−10	357*	− 98	26	− 7
	— CHANNEL ISLANDS	42	−10	41	−10	485	− 63	34	− 4

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was characterised by cloudy or overcast skies generally, but by some bright intervals. Rain fell pretty frequently throughout the Kingdom, and was sometimes heavy in the most western and northern districts. A thunderstorm occurred at Armagh on Sunday, while on Friday thunderstorms were experienced in several parts of England.

Temperature was below the mean over the major portion of the Kingdom, but equalled it in the Channel Islands, and was a degree above it in England E. and N.E. The highest of the maxima were recorded on the 1st at several stations, but on the 5th at many others. They ranged from 65° in England S. and E. to 59° in Scotland W., and to 56° in Ireland N. The lowest of the minima were mostly recorded about the middle of the week, and ranged from 31° in the Midland Counties and 32° in England S., to 38° in England E., and to 43° in the Channel Islands.

Rainfall exceeded the normal in all districts except the Midland Counties and England N.W. In Ireland, Scotland, and the north-east of England the fall was more than twice as much as the mean.

Bright Sunshine was deficient generally, but just equalled the normal in England N.E. The percentage of the possible duration ranged from 41 in the Channel Islands and 39 in England N.E., to 28 in Scotland N., and to 25 in England S.W.

Barometer and Wind. At the commencement of the week a depression lay off our north-west coasts, while the barometer was highest in an anticyclone over Spain. The disturbance subsequently travelled east-north-eastwards to Norway, and was followed by a ridge of high pressure extending over our Islands from Spain. By Thursday the ridge had moved on to the Continent, and another depression was seen to be approaching Ireland. This system also moved in an easterly direction, but very slowly, the principal depression being accompanied by several ill-defined secondaries, which were formed on its western and southern sides. Both these disturbances brought Southerly to Westerly winds over our more southern districts, but with the second the wind in Scotland was North-Easterly or Easterly, and finally became North-Easterly to North-Westerly over the whole Kingdom. Strong winds or slight gales were experienced on our western and southern coasts on Sunday and Monday, and strong Northerly winds in most other parts of the Kingdom towards the end of the week.

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II.—DATA from which the SUMMARY on page 103 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	50	35	47·9	39·4	43·4	− 0·1	21	7	5	0·77	+ 0·34	*	*	*	*
	Stornoway	52	34	48·9	37·9	43·1	− 2·3	25	11	7	0·76	+ 0·20	37·6	− 2·5	34	− 2
	Wick	59	36	51·0	39·6	45·0	− 0·5	31	7	7	0·52	+ 0·12	*	*	*	*
	Lairg Ꞩ	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Glencarron Ꞩ	58	33	50·0	38·8	44·1	− 1·5	28	9	7	1·92	+ 0·87	*	*	*	*
	Fort Augustus Ꞩ	61	34	51·1	38·2	44·3	− 2·7	32	11	7	1·52	+ 1·06	23·6	− 5·2	22	− 5
	Fort William	56	36	50·3	39·8	44·7	− 2·9	28	6	7	2·27	+ 1·47	21·3	− 15·6	20	− 15
1. SCOTLAND, E.	Nairn	59	34	51·9	37·9	44·5	− 2·4	35	11	6	0·73	+ 0·38	*	*	*	*
	Aberdeen	53	36	48·7	39·9	44·0	− 2·3	23	6	7	1·72	+ 1·26	23·5	− 16·9	22	− 16
	Braemar Ꞩ	58	34	48·1	36·5	42·0	− 1·5	17	15	5	1·42	+ 0·92	*	*	*	*
	Ochtertyre Ꞩ	64	35	53·7	38·4	45·6	− 1·7	40	10	6	1·27	+ 0·81	*	*	*	*
	Leith Ꞩ	59	38	54·0	39·7	46·4	− 1·4	40	6	6	0·93	+ 0·58	*	*	*	*
	Marchmont Ꞩ	58	36	52·4	38·0	44·8	− 0·8	36	11	6	1·24	+ 0·70	40·9	+ 2·5	38	+ 2
2. ENGLAND, N.E.	Alnwick Castle	63	36	55·0	39·3	46·7	+ 1·0	44	8	5	1·05	+ 0·59	*	*	*	*
	Durham	57	37	54·6	39·0	46·3	− 0·3	43	8	6	1·06	+ 0·62	36·7	+ 1·2	34	+ 1
	Shields	60	40	54·7	42·7	48·3	+ 2·0	44	0	6	1·06	+ 0·70	*	*	*	*
	Scarborough Ⓜ	61	40	56·1	41·5	48·4	+ 1·3	47	1	6	1·56	+ 1·12	42·5	—	40	—
	Spurn Head	63	42	56·6	43·6	49·7	+ 2·3	54	0	3	0·64	+ 0·29	*	*	*	*
	Lincoln	60	38	55·8	41·3	48·1	− 0·6	46	2	4	0·76	+ 0·37	*	*	*	*
	Fulbeck (Lincolnshire)	60	38	55·8	40·9	47·9	− 0·4	46	3	3	0·60	+ 0·19	44·3	—	42	—
3. ENGLAND, E.	Hillington Ⓜ	63	39	56·3	41·5	48·5	0·0	48	1	4	1·25	+ 0·85	38·5	− 4·5	37	− 4
	Yarmouth	60	40	54·0	44·0	48·7	+ 1·2	47	0	6	1·01	+ 0·63	*	*	*	*
	Geldeston	63	39	56·2	41·5	48·4	+ 0·1	47	1	6	0·89	+ 0·52	31·7	− 14·1	30	− 13
	Cambridge	64	38	57·1	42·3	49·3	− 0·2	51	0	6	0·49	+ 0·11	40·8	− 1·8	39	− 2
	Felixstowe	65	40	56·4	44·8	50·3	+ 2·2	58	0	5	0·77	—	39·8†	—	28†	—
	Clacton-on-Sea	59	39	55·3	44·0	49·3	+ 0·9	51	0	6	0·54	—	45·5†	—	44†	—
	Rothamsted	61	38	55·7	41·3	48·1	− 0·2	46	2	5	0·56	+ 0·12	46·8	+ 5·6	45	+ 5
	Shoeburyness	62	41	56·4	44·6	50·2	+ 1·6	57	0	4	0·54	+ 0·24	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	58	38	53·9	39·4	46·2	− 0·5	40	7	5	0·66	+ 0·23	40·1	—	38	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	60	37	57·1	41·3	48·7	− 0·3	50	2	4	0·32	− 0·13	42·5	—	41	—
	Colly Weston (Stamford)	61	35	56·3	40·0	47·7	− 1·4	48	6	5	0·38	− 0·02	*	*	*	*
	Cheadle Ⓜ	57	35	54·1	39·1	46·2	− 1·0	42	8	4	0·57	+ 0·09	*	*	*	*
	Birmingham (Edgbaston)	60	38	55·0	41·0	47·6	− 0·5	43	3	3	0·41	− 0·07	36·4	—	35	—
	Shrewsbury	61	35	56·4	39·4	47·4	− 1·5	49	7	5	0·35	—	*	*	*	*
	Hereford Ⓜ	61	35	56·0	39·6	47·3	− 2·1	47	7	3	0·53	+ 0·09	*	*	*	*
	Cirencester	61	31	55·5	37·1	45·8	− 2·3	47	14	4	0·47	+ 0·02	32·2	− 10·5	31	− 10
	Oxford	62	38	56·4	42·0	48·8	− 0·9	48	0	5	0·47	+ 0·09	36·8	− 4·2	35	− 4
5. ENGLAND, S.	London	65	39	58·4	43·3	50·4	− 0·6	59	0	5	0·47	+ 0·10	38·4‖	+ 1·4‖	37‖	+ 1‖
	Wisley	62	39	56·5	43·2	49·5	− 1·6	53	0	5	0·36	—	38·0	—	37	—
	Swarraton (Alresford) Ⓜ	61	32	55·6	39·9	47·3	− 0·8	46	6	4	0·44	0·00	*	*	*	*
	Tunbridge Wells Ⓜ	59	39	55·5	41·4	48·0	− 1·3	45	2	5	0·99	—	35·4	—	34	—
	Dungeness	59	39	54·3	44·0	48·8	− 0·6	48	0	5	0·52	+ 0·22	30·2	—	29	—
	Hastings (St. Leonards)	58	40	53·9	43·6	48·4	− 1·2	45	0	5	1·01	+ 0·63	34·4	− 14·3	33	− 14
	Southampton	63	39	58·3	44·2	50·8	− 0·2	62	0	4	0·80	+ 0·37	34·9	− 10·6	34	− 10
	Portland Bill	56	43	53·4	45·4	49·2	− 1·0	50	0	6	0·57	—	*	*	*	*
	Shaftesbury Ⓜ	59	39	53·2	41·4	47·0	− 1·5	38	2	5	0·72	+ 0·20	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	58	34	52·8	38·6	45·3	− 2·8	37	10	7	1·76	+ 0·92	*	*	*	*
	Glasgow	57	39	51·7	40·8	45·9	− 1·6	32	3	5	1·62	+ 1·10	30·7	− 4·0	28	− 4
	Cally Ꞩ	59	35	52·8	38·8	45·4	− 2·6	37	9	5	1·27	+ 0·64	*	*	*	*
	Aspatria	59	36	52·9	39·6	45·9	− 1·1	37	7	5	1·40	—	32·1	—	30	—
	Douglas (Isle of Man)	54	36	51·0	40·8	45·6	− 2·1	30	3	6	1·08	+ 0·55	42·2	− 5·6	40	− 5
7. ENGLAND, N.W.	Newton Rigg	58	36	51·8	38·7	44·9	− 0·9	34	9	6	0·80	—	35·6	—	33	—
	Stonyhurst	57	39	52·8	41·3	46·7	− 0·8	36	2	6	0·60	+ 0·01	39·9	− 0·5	38	− 1
	Blackpool Ⓜ	57	41	54·2	42·6	48·1	− 0·4	43	0	4	0·62	+ 0·17	37·5	− 3·7	35	− 4
	Manchester (Prestwich)	59	39	55·1	40·9	47·6	− 0·3	44	3	5	0·47	− 0·02	34·9	—	33	—
	Liverpool Obsy. (Bidston)	59	41	54·3	43·1	48·4	− 0·9	45	0	5	0·29	− 0·11	39·5	—	37	—
	Chester (Hawarden Bridge)	60	36	55·6	42·3	48·6	− 1·3	46	0	4	0·33	—	*	*	*	*
	Llandudno Ⓜ	57	43	53·3	44·5	48·6	− 0·8	46	0	3	0·11	− 0·29	42·0	+ 0·3	40	0
	Holyhead	54	42	51·7	43·1	47·1	− 2·1	36	0	3	0·27	− 0·16	*	*	*	*
	Bettws-y-Coed	61	37	54·7	42·3	48·1	− 0·9	43	0	6	0·85	—	31·6	—	30	—
8. ENGLAND, S.W.	Pembroke	51	42	49·6	43·9	46·6	− 1·9	32	0	6	1·02	+ 0·58	19·7	− 27·7	19	− 27
	Clifton	61	40	55·1	42·9	48·6	− 0·8	46	0	4	1·15	+ 0·63	*	*	*	*
	Bath	61	38	55·4	41·7	48·1	− 1·8	44	1	4	0·66	+ 0·20	30·7	—	30	—
	Arlington (N. Devon)	56	37	51·9	41·3	46·3	− 1·7	33	2	6	1·89	+ 1·24	*	*	*	*
	Cullompton Ⓜ	64	34	57·5	40·3	48·4	− 1·7	52	5	4	0·87	+ 0·37	26·1	− 15·7	25	− 15
	Falmouth	58	41	54·2	43·5	48·5	− 1·6	46	0	7	1·30	+ 0·70	29·2	− 19·5	28	− 19
	Plymouth	55	38	53·2	42·9	47·7	− 3·4	40	0	5	0·76	+ 0·28	28·7	− 16·8	28	− 16
9. IRELAND, N.	Malin Head	54	35	49·7	39·7	44·4	− 3·7	26	6	7	0·78	+ 0·33	*	*	*	*
	Edenfel (Omagh)	55	36	52·1	40·7	46·1	− 1·2	34	4	6	1·16	+ 0·61	*	*	*	*
	Blacksod Point	53	39	50·7	42·9	46·6	− 2·7	32	0	6	1·45	+ 0·81	*	*	*	*
	Markree Castle	55	33	53·3	40·1	46·3	− 1·6	38	5	6	1·48	+ 0·92	31·7	− 7·6	30	− 7
	Armagh	56	38	53·8	40·9	47·0	− 1·0	40	3	7	0·66	+ 0·19	31·1	− 7·3	29	− 7
	Donaghadee	55	39	52·0	41·9	46·7	− 1·5	33	0	6	0·65	+ 0·18	*	*	*	*
10. IRELAND, S.	Dublin	61	40	56·6	42·3	49·0	− 1·0	49	0	5	1·09	+ 0·65	42·0	− 2·6	40	− 3
	Birr Castle	59	34	54·1	40·0	46·6	− 2·4	41	6	6	1·68	+ 1·18	33·3	− 6·1	32	− 6
	Kilkenny	58	35	53·6	40·6	46·7	− 2·6	39	4	6	1·80	+ 1·31	*	*	*	*
	Waterford	55	37	51·4	41·0	45·9	− 3·2	32	3	4	1·14	+ 0·58	*	*	*	*
	Roche's Point	54	43	52·3	44·4	48·1	− 2·4	43	0	5	0·93	+ 0·25	*	*	*	*
	Valencia	55	43	53·0	45·7	49·1	− 1·4	50	0	7	1·58	+ 0·83	21·4	− 23·0	21	− 22
	Killarney	64	42	58·0	44·4	50·8	+ 1·0	62	0	6	1·95	+ 1·22	*	*	*	*
	Foynes	59	38	54·7	41·1	47·5	− 1·8	42	3	6	1·58	+ 1·04	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	43	55·4	46·3	50·6	0·0	60	0	7	0·64	+ 0·21	30·1	− 19·5	29	− 19
	Jersey	64	45	56·7	46·7	51·4	0·0	66	0	6	0·74	+ 0·30	50·8	− 1·2	50	− 1

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ꞩ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

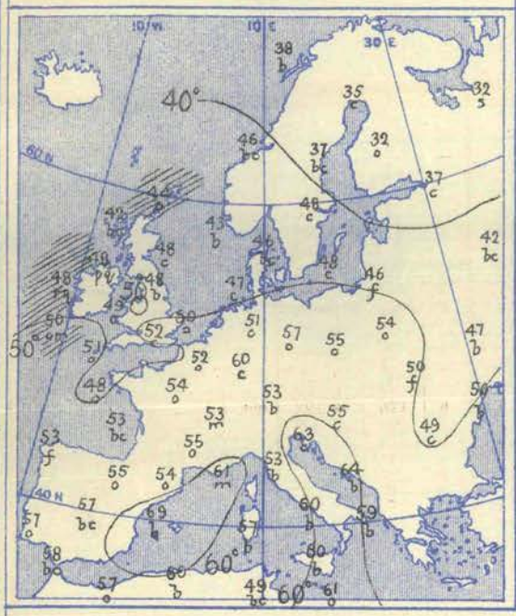
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‖ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

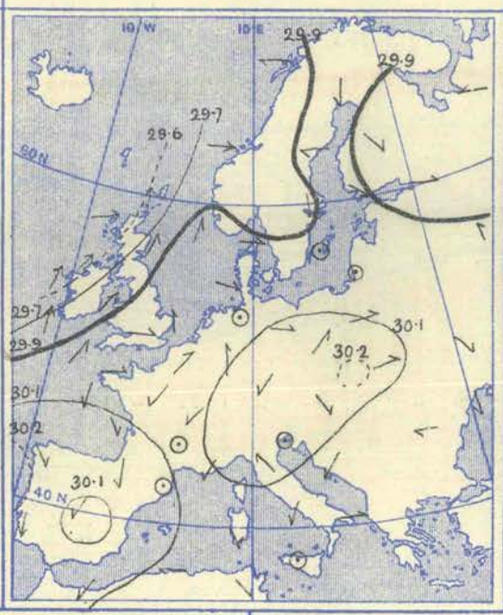
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 1st May, 1904.

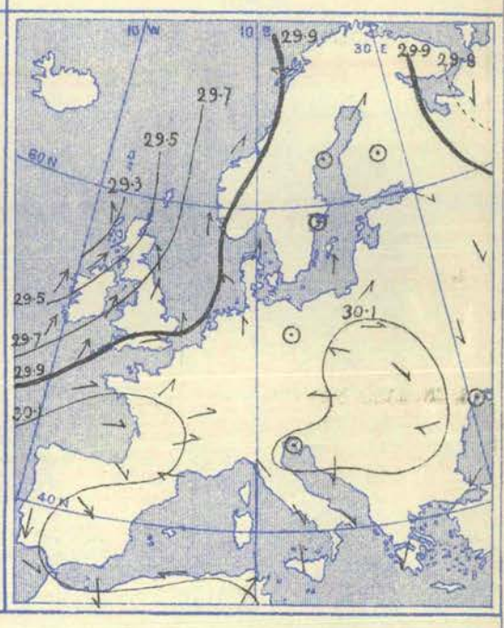
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine over the major portion of Europe, but much cloud in places. Rainy in Ireland and the Channel Islands, and snow falling at Archangel. Foggy at Cape Gris Nez and Corunna. Rain experienced throughout the United Kingdom during the ensuing night, and some considerable amounts in Denmark and North Germany. A thunderstorm occurring at the mouth of the Elbe and at Berlin—as much as 1·65 ins. of rain at the latter station.

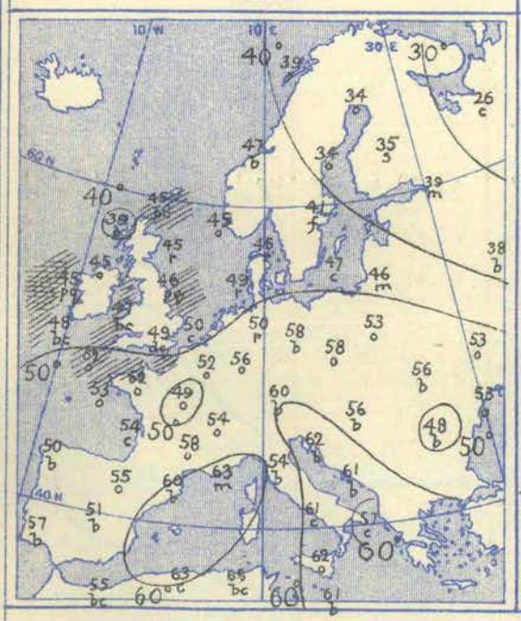
Temperature changed irregularly. Morning readings highest, 69° at Barcelona, 68° at Alicante, 64° at Lésina and Nice, and 63° at Trieste. Lowest, 32° at Archangel and Kuopio, 33° at Bodö, 42° at Moscow, 43° at Skudesnaes, and 44° at Sumburgh Head. Below 50° at Le Mans and at nearly all our own stations. Rising during day to 64° in London, to above 70° in many parts of central Europe, Italy, Spain, and the south of France. Highest readings, 78° at Lyons and 79° at Madrid.

Wind in morning light and very variable over the Continent, but fresh to a moderate gale from South or South-West over our own western districts, and moderate from the same quarter on our northern coasts. Strong winds extending eastwards later, and increasing to a fresh or strong gale on some parts of our western coasts.

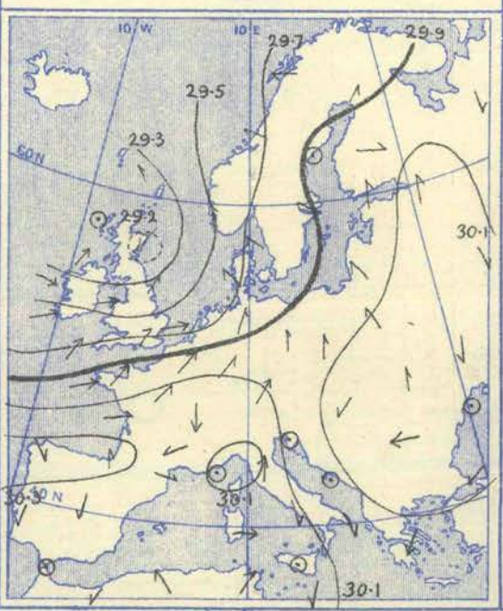
Barometer in morning ranging from above 30·2 ins. over central Europe, at Biarritz, and off the west of Portugal, to less than 29·9 ins. over Finland and northern Russia, and to less than 29·6 ins. off the north-west of our Islands. South-western high pressure increasing during day, but that over the central countries decreasing. Barometer falling steadily over our Islands, and gradients becoming rather steep on our western and northern coasts.

Monday, 2nd May, 1904.

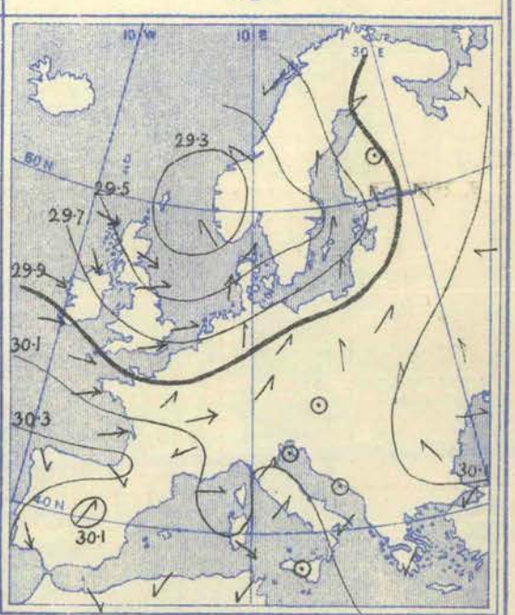
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast as a whole, with rain or passing showers in many parts of our Islands, the Netherlands, North Germany, Denmark, and at Bodö, and snow at Kuopio. Fine and bright in places—mostly in the south. Rain experienced later in almost all parts of northern and north-western Europe; heaviest amounts, 0·7 in. at Aberdeen, Sumburgh Head, Cape Griz Nez, and Memel, and 0·9 in. at Karlstad.

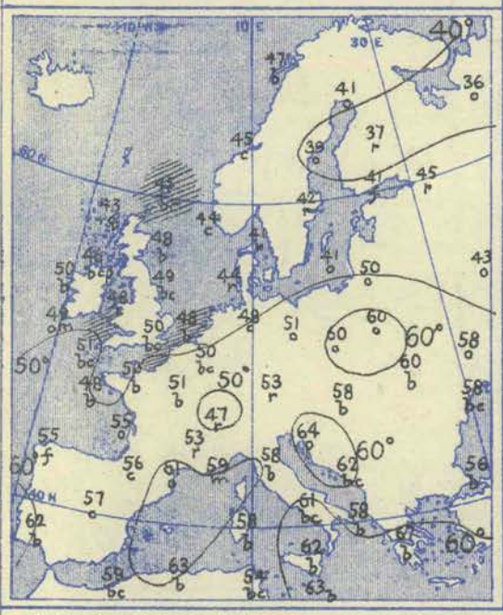
Temperature fallen in most regions. Morning values highest, 67° at Patras and Barcelona, 65° at Nice, 63° at Algiers, and about 60° at most other southern stations and at Munich. Lowest, 26° at Archangel, 34° at Hernösand, 39° at Stornoway, and below 50° over the major portion of our Islands and at Paris. Rising to 63° at Spurn Head during day, to 70° at Munich, 75° at Lemberg and Prague, 77° at Florence, 79° at Perpignan, and 81° at Madrid. Thermometer not touching 50° at several of our own northern and north-western stations.

Wind in morning circulating cyclonically around the east of Scotland. Westerly current fresh or strong to a gale over Ireland and England, but Easterly winds in Scotland light in force. Light or moderate airs, mainly anticyclonic, over the greater part of Europe. Wind veering to the north-westward in Scotland and Ireland later, increasing in force in the former country and decreasing somewhat in the latter.

Barometer at 8 a.m. ranging from above 30·3 ins. in an anticyclone extending from the Atlantic across the north of Spain and from above 30·1 ins. in another high pressure system over Russia, to below 30·1 ins. in a shallow depression over the Riviera, and to below 29·2 ins. in a disturbance centred near Aberdeen. Latter system travelling north-eastwards towards Norway during day, and gradients becoming less steep over the United Kingdom. No important change taking place in the height or size of the anticyclones, but a baric minimum forming over central Spain.

Tuesday, 3rd May, 1904.

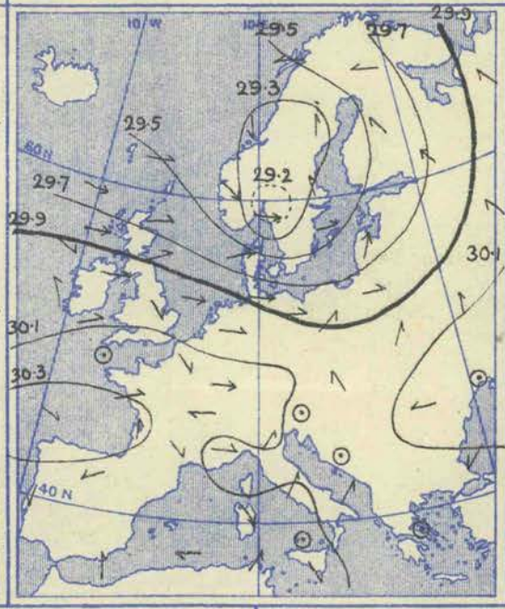
Temperature and Weather. 8 a.m.

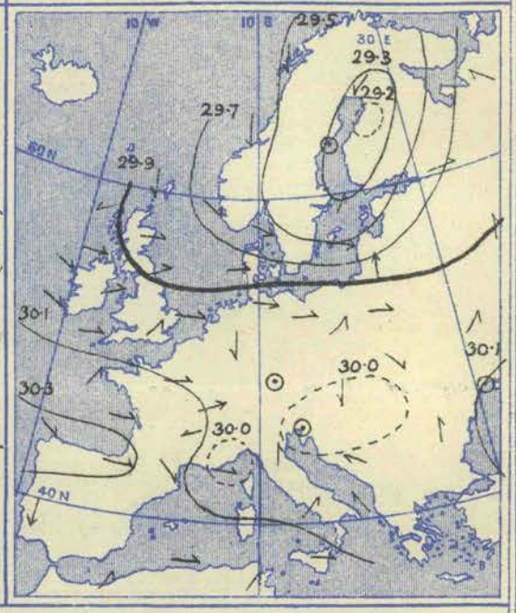


Weather at 8 a.m. fine and bright in many parts of our Islands, Italy, Algeria, Portugal, and Austria; cloudy or dull elsewhere, rainy over central France, at Munich, in Denmark, Finland, and at Wisby, and showery on our own extreme north-west coasts. Rain falling later in most parts of northern and central Europe—largest quantities, 0·7 in. at Haparanda and Cracow, and 0·6 in. at Hernösand and Munich.

Temperature changed little in our Islands and irregularly on the Continent. Morning values highest, 67° at Patras, 64° at Trieste, 63° at Malta, and 62° or 60° in Poland. Lowest, 36° at Archangel, 39° at Hernösand, 41° at Skagen, 43° at Moscow and Stornoway, and 47° at Belfort. Rising subsequently to nearly 60° in a few parts of Ireland and England, to above 70° over central and southern Europe and in Algeria. Highest maximum, 79° at Sfax and San Fernando. Thermometer remaining below 50° over Scandinavia, Denmark, and the extreme north of Ireland.

Barometer and Wind. 8 a.m. and 6 p.m.



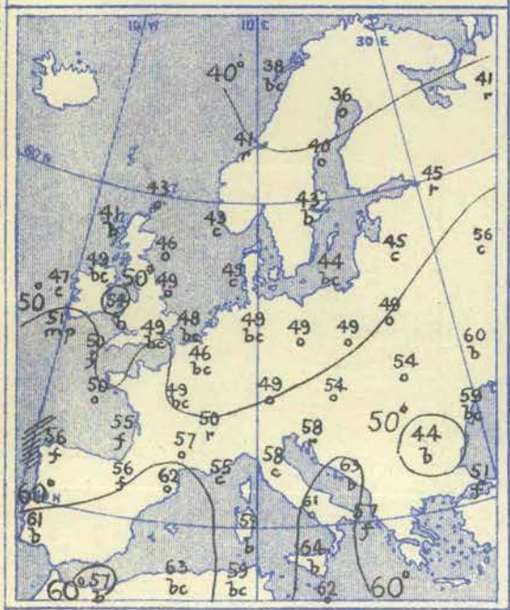


Wind in morning showing a light anticyclonic movement both in the south-east and south-west of our area and an extensive cyclonic circulation over northern Europe. Westerly current strong over our Islands, and strong to a gale over the south-west of Norway, Denmark, and the Baltic. Easterly current in the north of Scandinavia only of moderate strength. A separate cyclonic movement prevailing over the Mediterranean. Westerly gales and strong winds subsiding later, and Easterly wind in the far north becoming displaced by a Northerly current.

Barometer at 8 a.m. ranging from above 30·3 ins. over the north of Spain and its neighbourhood and above 30·2 ins. in the south of Russia, to below 30·1 ins. over the Riviera and the Gulf of Genoa, and to below 29·2 ins. in a depression over the south of Scandinavia. Latter system travelling away quickly to the north-west of Finland during day, and that in the south becoming rather more marked and remaining stationary. Gradients decreasing over the United Kingdom; increasing over the Baltic and its neighbourhood.

Wednesday, 4th May, 1904.

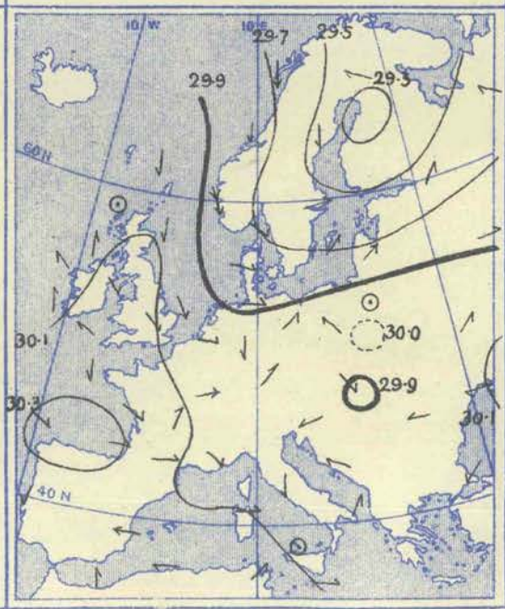
Temperature and Weather. 8 a.m.

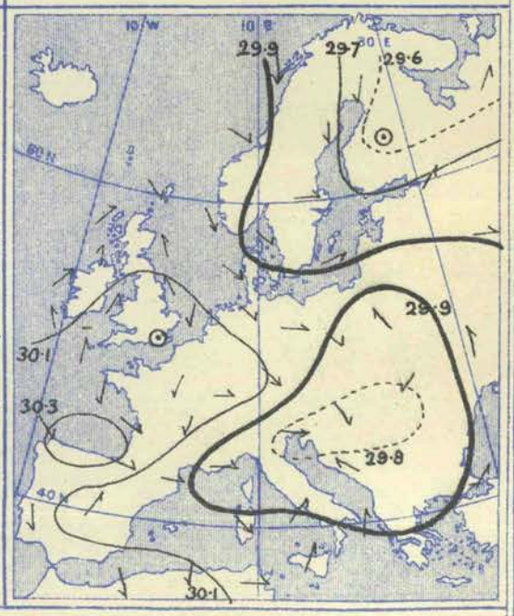


Weather at 8 a.m. fine and bright at most English stations, in Portugal, Algeria, and at Cagliari and Palermo, as well as in the south of Sweden and the south of Russia. Cloudy or overcast elsewhere, with fog over the Bay of Biscay and at Scilly, and rain at Trieste, Cracow, Christiansund, in the north of Russia, and also at Frankfurt, Belfort, and Limoges. Rain experienced later at our own western and northern stations and in most Continental regions—heaviest at Lemberg (0·59 in.) and at Trieste (0·95 in.).

Temperature fallen in most places—quickly in the central countries—but risen over Russia. Readings in morning highest, 65° at Barcelona, 64° at Palermo, and above 60° at many other southern stations, 60° at Kiev, and 56° at Moscow. Lowest, 36° at Haparanda, 41° at Archangel and Stornoway, 42° at Frankfurt, and 44° at Hermanstadt. Rising subsequently to 60° at some of our own southern stations, to above 70° in the south of Europe generally, to 81° at San Fernando, and to 82° at Palma.

Barometer and Wind. 8 a.m. and 6 p.m.



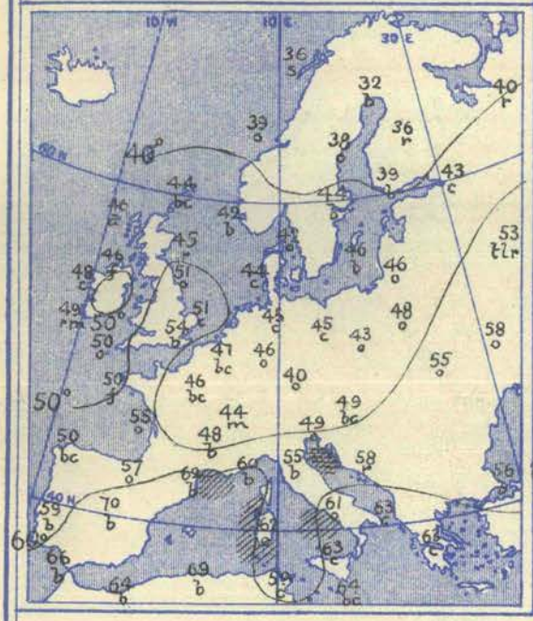


Wind in morning showing a cyclonic circulation throughout the north of Europe, of moderate strength generally, but Northerly current in Norway strong to a gale. Light and anticyclonic airs prevailing over the south-western parts of our area, and light variable breezes over the Mediterranean and southern Europe. Wind increasing from the southward on our most western coasts later, and an irregular cyclonic circulation setting in over the southern countries.

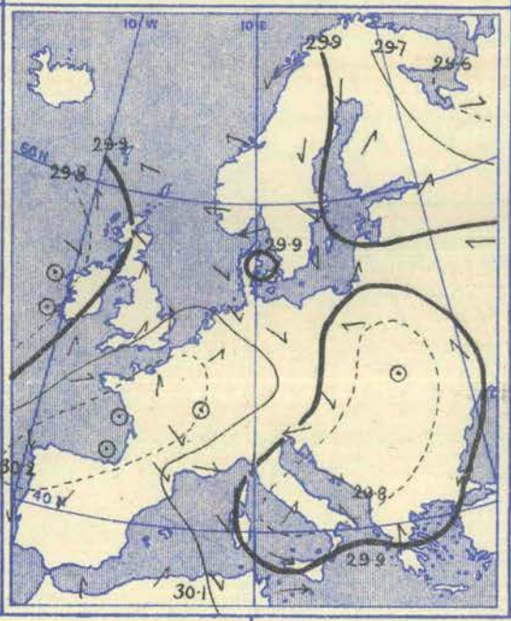
Barometer at 8 a.m. ranging from above 30·3 ins. in an anticyclone over northern Spain and above 30·1 ins. in a ridge extending to the south of Scotland, to below 29·9 ins. in a small depression near Buda-Pesth, and to below 29·3 ins. in another and larger disturbance over the northern part of the Gulf of Bothnia. Latter system moving eastwards later and apparently decreasing in intensity, but the former becoming deeper and much more irregular in form, and a secondary developing over the Gulf of Genoa. Barometer falling slowly on our north-west coasts.

Thursday, 5th May, 1904.

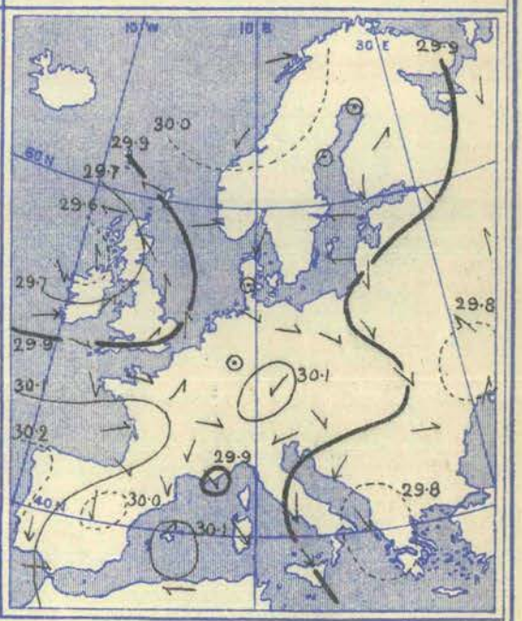
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in most southern parts of our area and also in the south of Scandinavia, the Netherlands, and the north of France. Cloudy or overcast in most other regions, with a thunderstorm at Moscow, rain over our own western and northern districts, as well as at Cracow, Lesina, and Pesaro. Rain falling later in almost all parts of our Islands and in most Continental localities. Heaviest amounts, 1·6 ins. at Brindisi and 0·8 in. at Blacksod Point.

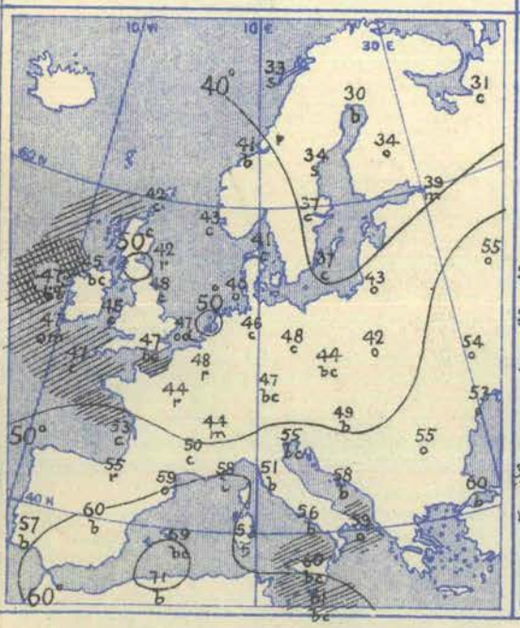
Temperature risen in England, the Netherlands, and Algeria, fallen in most other places. Morning values ranging from 70° at Madrid, 69° at Algiers, 68° at Barcelona, and above 60° in the south generally, to below 50° over the major portion of our area, and to below 40° at various stations in the north. Lowest reading, 34° at Haparanda. Rising during day to 77° at Madrid and Perpignan, to above 70° in the south generally, and to 60° or above in the southern parts of the United Kingdom and at Frankfurt.

Wind at 8 a.m. irregularly cyclonic over the central and southern countries; Northerly current strong at Pesaro, and that from North-West strong in the central parts of the Mediterranean. Light and anticyclonic over the greater part of France and the Iberian Peninsula, and light or moderate from the Southward or South-Eastward over the United Kingdom. Northerly in most parts of northern Europe, but a complete cyclonic circulation shown in Denmark. Wind increasing to a gale at some Mediterranean stations by evening, and a freshening cyclonic circulation developing over our Islands.

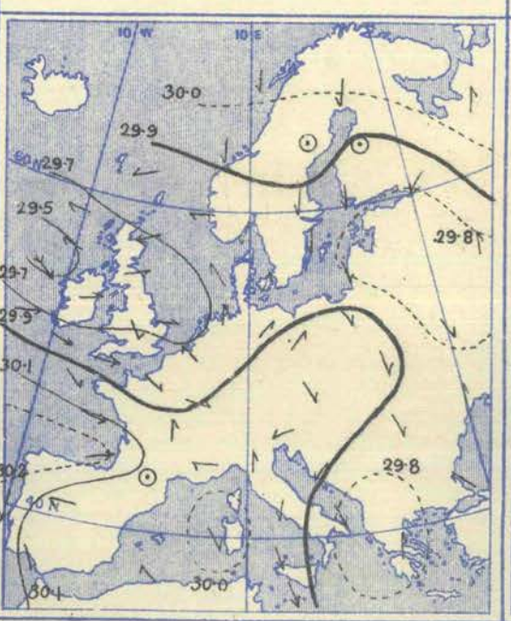
Barometer at 8 a.m. ranging from above 30·2 ins. in an anticyclone extending from the Atlantic across the north of Spain to the north-east of France, to below 29·8 ins. (1) in an elongated depression stretching from Italy to Poland, and (2) in a disturbance off our western coasts, and to less than 29·6 ins. over the White Sea. About 29·9 ins. in a small minimum over Denmark. Disturbance in north-west spreading over the United Kingdom during day, and south-westerly anticyclone receding towards the Atlantic in a south-westerly direction.

Friday, 6th May, 1904.

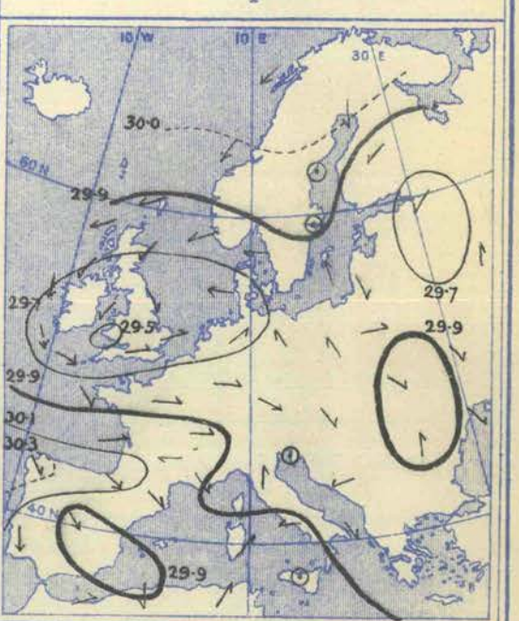
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in different parts of Scandinavia and southern and central Europe, but cloudy or dull as a whole. Rainy in Belgium, the north-east of France, at Biarritz, and at many of our own stations, and snow falling at Hernösand. Rain becoming general later, except in Algeria, Italy, Austria, and Sweden. Largest amounts, 1·0 in. at Lorient, 0·8 in. at St. Petersburg, and 0·6 in. at Parsonstown. Thunderstorms occurring at Liverpool and in the south-east of England.

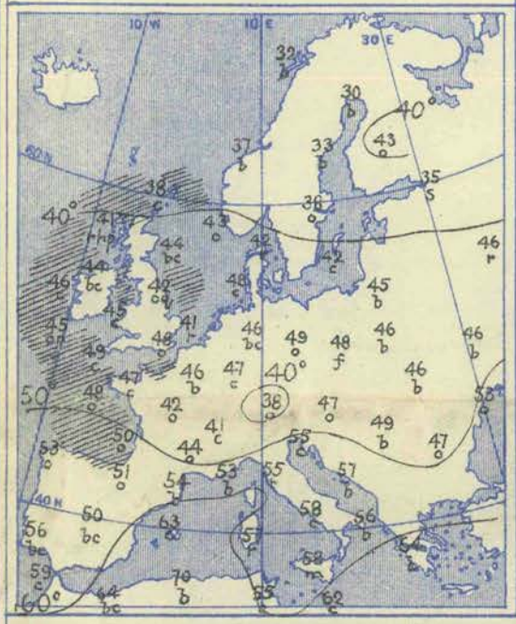
Temperature fallen generally. Morning values highest, 71° at Algiers, 66° at Barcelona, 63° at San Fernando, and 60° at Madrid and Constantinople. Lowest, between 30° and 34° at most stations in the extreme north, 37° at Stockholm, 41° or 42° at most Scotch stations, between 42° and 44° at many Austrian and Polish stations, and 44° at Paris and Belfort. Maxima during day only 44° in the north-east of Scotland and 46° at Pembroke, but 59° in London, above 60° in central Europe, and above 70° in several southern regions. Highest readings, 74° at Madrid, 75° at Cagliari, and 84° in the east of Algeria.

Wind in morning cyclonic over our Islands and their neighbourhood, the Easterly current blowing strongly or freshly in Scotland, and that from the Westward having the force of a fresh gale on the west coast of Ireland. Strong Westerly winds or moderate gales prevailing over the south-western parts of England. Several cyclonic or anticyclonic circulations of little strength shown in different regions on the Continent, but wind strong from North-West on the central portion of the Mediterranean. Wind veering to the northward in Ireland later, and decreasing to a strong breeze.

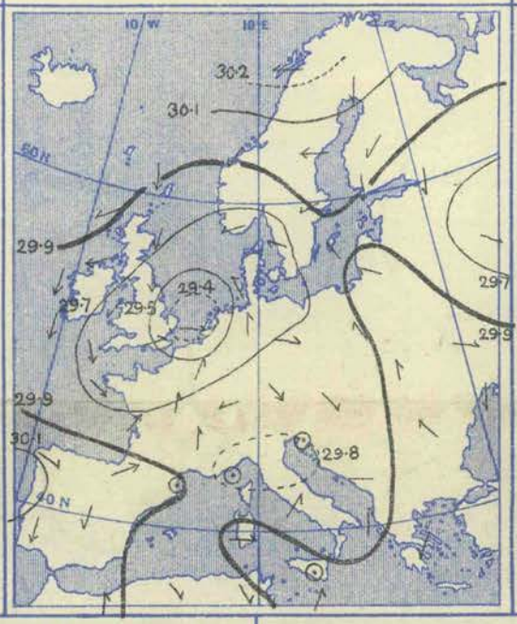
Barometer in morning highest, above 30·2 ins. in an anticyclone extending from the Atlantic across the north of Spain. Lowest, less than 29·5 ins. in a depression of irregular shape, but having its minimum in the north-west of Ireland. Below 29·8 ins. in a large shallow disturbance over Russia and in another over the Balkan Peninsula. Irish minimum travelling to Wales by evening. Russian disturbance decreasing somewhat in size, and that over south-eastern Europe apparently moving northwards.

Saturday, 7th May, 1904.

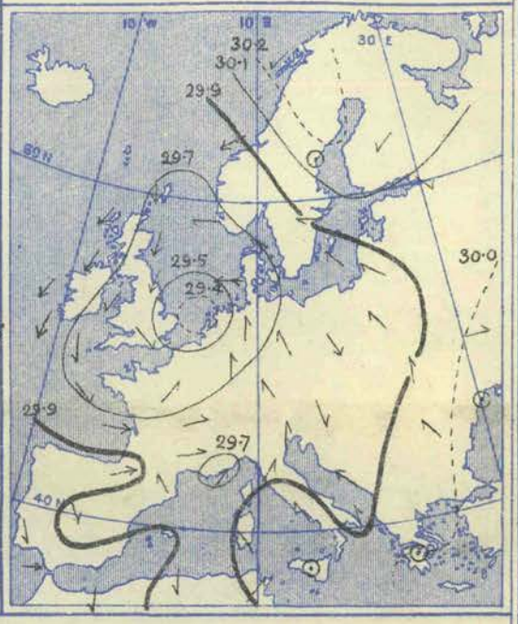
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather fine and bright in the northern half of Scandinavia and in several parts of Hungary, Poland, southern Europe, and Algeria; dull or very cloudy elsewhere. Rainy in the south of Norway, Denmark, at some of our own stations, as well as at Bilbao, Limoges, Florence, and Cagliari. Snow falling at St. Petersburg and rain at Moscow. A considerable amount of rain falling later in most regions and heavy rain or snow in the south of Sweden—as much as 1·06 ins. at Karlstad.

Temperature fallen except at some stations in central Europe. Readings in morning highest, 70° at Algiers, 64° at Patras, and 63° at Barcelona. Lowest, 30° at Haparanda, 32° at Bodö, 34° at Karlstad, 35° at St. Petersburg, and 38° at Sumburgh Head and Munich. Maxima during day below 50° in many parts of the United Kingdom and at Munich, and below 60° over the greater part of France, but thermometer touching 70° at some Austrian, Italian, and Grecian stations, and rising to 82° at Tunis.

Wind at 8 a.m. circulating cyclonically around the North Sea. Southerly current over Germany light in force, but Easterly to Northerly winds strong over Scandinavia and the United Kingdom. Light breezes from between North and West prevailing in Russia, and light variable breezes over Italy and the Mediterranean. Very little change later.

Barometer at 8 a.m. ranging from above 30·2 ins. in Lapland and above 30·0 ins. over the western half of the Spanish Peninsula, to below 29·8 ins. in a slight depression over the north of Italy and its vicinity, to less than 29·7 ins. in another system over central Russia, and to below 29·4 ins. in an elongated disturbance having its centre over the southern portion of the North Sea. Last mentioned system scarcely moving during day, but the disturbance over Russia entirely dispersing. Italian depression becoming smaller and centred over the Riviera.

IV.—GENERAL NOTES, etc.

The general distribution of pressure was very unstable and the level of the barometer rather low. A somewhat feeble anticyclone stretched from the Atlantic to the north of Spain and at times across France to central Europe. Depressions in the meantime arrived over our Islands from the westward, and other systems of less intensity were found in different parts of the Continent and over the Mediterranean. The winds accompanying the various disturbances frequently increased to a strong breeze over the north-western countries and sometimes to the force of a moderate or fresh gale. In the Mediterranean regions the winds were of less strength as a rule, but slight gales were experienced on more than one occasion. Rain was of frequent occurrence in all the north-western countries, but elsewhere the falls were less numerous. Heavy thunderstorms visited North Germany on Sunday; at Berlin the storm was especially violent and gave as much as 1·65 ins. of rain. Thunderstorms were also experienced in some parts of England during Friday, but the accompanying rainfall was not large. Temperature was fairly high for the time of year during the early part of the week, but subsequently fell and became very low in the north-western countries. In the far south it did not vary greatly from the normal, 8 a.m. readings of 60° being very common, while the maxima were generally between 70° and 80°.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 104.

STA	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNESS	41·9	+ 3·6	38	+ 3	SHEFFIELD	46·4	—	44	—	WESTBOURNE	39·6†	- 8·0	38†	- 8
STRATHPEFFER SPA	26·7	- 10·2	25	- 9	WORKSOP	40·6	+ 4·9	39	+ 4	VENTNOR HOSPITAL	34·9	- 13·5	34	- 13
EDINBURGH	32·5	- 1·9	30	- 2	THURCASTON	40·9	+ 3·2	39	+ 2	BOURNEMOUTH	38·2	—	37	—
COCKLE PARK	41·0	—	38	—	MARGATE	33·7	- 7·7	32	- 7	MARLBOROUGH	30·8	- 8·2	30	- 8
NEWCASTLE-ON-TYNE	31·5	—	29	—	BROADSTAIRS	36·2	—	35	—	SOUTHPORT	39·2	—	37	—
YORK	27·2	- 0·5	35	- 1	RAMSGATE	35·5	—	34	—	RHYL	44·3	—	42	—
SKEGNESS	42·9	—	41	—	EASTBOURNE	36·1	- 11·2	35	- 11	ABERDOVEY	37·9†	—	36†	—
CROMER	38·7	—	37	—	BRIGHTON	37·3	- 8·4	36	- 8	TENBY	23·0	- 24·7	22	- 24
LOWESTOFT	33·6	—	32	—	WORTHING	35·2	—	34	—	TORQUAY	29·7	- 17·2	29	- 17
DUNMOW	42·0	—	40	—	BOGNOR	42·2†	—	41†	—	NEWQUAY	20·3	- 25·7	20	- 25
										GUERNSEY	44·8†	- 8·7	44†	- 8

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values below must be substituted for those which have already appeared.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Twenty Seventh Year No. 4, p. 20	Cullompton	—	—	—	36·3	42·2	+ 1·9	25	—	—	—	—	—	—	—	—
,, ,, ,, No. 5, p. 26	Shaftesbury	—	—	—	35·2	—	—	—	25	—	—	—	—	—	—	—
,, ,, ,, No. 6, p. 32	Hillington	—	—	—	33 2	39·1	+ 0·8	—	33	—	—	—	—	—	—	—
,, ,, ,, ,, ,,	Hereford	—	—	44·7	—	—	—	—	—	—	—	—	—	—	—	—
,, ,, ,, ,, ,,	Tunbridge Wells	—	—	46·1	35·8	41·0	+ 3·0	—	25	—	—	—	—	—	—	—

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TWENTY-SEVENTH YEAR. Vol XXI. (New Series.) No. 19. NINETEENTH WEEK, ENDING SATURDAY, MAY 14TH, 1904. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 110.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	60	30	50·7	39·2	44·6	2 below	30	−11	8	0	235	− 61	475	− 59
	1. SCOTLAND, EAST	62	29	51·8	39·2	45·1	2 below	33	−15	8	+ 2	284	− 94	581	− 1
	2. ENGLAND, N.E.	66	33	55·8	42·2	48·6	0 (average)	46	− 3	0	− 4	360	− 23	431	− 54
	3. ENGLAND, EAST	71	32	56·6	43·0	49·4	0 (average)	52	−10	0	− 4	407	− 79	404	−127
	4. MIDLAND COUNTIES	66	31	56·9	41·6	48·8	1 below	49	−14	1	− 4	347	−116	472	− 68
	5. ENGLAND, SOUTH	70	33	57·1	43·4	49·8	1 below	55	−14	0	− 2	441	−112	345	− 51
Principal Grazing Districts.	6. SCOTLAND, WEST	61	31	53·3	41·7	47·2	2 below	38	−16	1	− 3	314	− 96	374	− 39
	7. ENGLAND, N.W.	67	31	55·3	42·4	48·5	1 below	46	−11	0	− 3	331	−101	386	− 10
	8. ENGLAND, S.W.	67	35	56·7	43·7	49·8	1 below	55	− 8	0	− 1	493	− 62	252	− 52
	9. IRELAND, NORTH	61	34	55·0	43·1	48·7	0 (average)	47	− 8	0	− 3	358	−130	337	− 17
	10. IRELAND, SOUTH	69	34	56·2	43·7	49·6	1 below	53	−10	0	− 1	511	−103	232	− 23
	— CHANNEL ISLANDS	67	40	56·2	47·3	51·5	0 (average)	67	− 4	0	0	651	− 29	80	− 41

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 110.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10	3 more	97	+14	21·9	+ 4·5	26	−12	23	−10	334	− 60	23	− 4
	1. SCOTLAND, EAST	5	7	2 more	85	+15	11·2	+ 1·3	15	−25	13	−23	364	− 73	24	− 5
	2. ENGLAND, N.E.	3	2	2 less	75	+ 9	7·7	+ 0·1	23	−21	21	−19	399	− 71	27	− 5
	3. ENGLAND, EAST	2	2	2 less	71	+ 4	7·9	+ 0·6	23	−23	22	−22	438	− 77	29	− 5
	4. MIDLAND COUNTIES	4	2	3 less	82	+20	9·6	+ 1·1	22	−18	21	−17	370	− 66	25	− 4
	5. ENGLAND, SOUTH	4	3	2 less	81	+19	11·1	+ 2·0	25	−21	24	−19	424	− 72	28	− 5
Principal Grazing Districts.	6. SCOTLAND, WEST	4	5	1 less	87	+15	20·1	+ 3·2	22	−20	20	−18	356	− 90	24	− 6
	7. ENGLAND, N.W.	3	3	2 less	82	+15	12·3	+ 1·9	28	−10	26	− 9	381	− 44	25	− 3
	8. ENGLAND, S.W.	4	4	1 less	84	+14	15·4	+ 2·8	32	−15	31	−14	418	−110	28	− 7
	9. IRELAND, NORTH	3	2	3 less	99	+17	14·4	+ 2·9	40	0	37	0	366	− 76	24	− 5
	10. IRELAND, SOUTH	4	4	2 less	95	+20	16·9	+ 2·9	36	− 8	34	− 8	393	−106	26	− 7
	— CHANNEL ISLANDS	6	5	0 (average)	94	+19	15·6	+ 4·7	34	−21	33	−20	519	− 83	34	− 6

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather. The early days of the period were cold and dull, with slight rain in all districts, and with sleet or snow showers in a few northern localities. The latter part of the week was much finer and warmer in the south and milder in the north and north-west, but in those districts showers continued very prevalent.

Temperature was just equal to the normal in England E. and N.E., Ireland N., and the Channel Islands, but one or two degrees below elsewhere. The maxima recorded during the first few days were very low for the time of year; on Sunday the thermometer failed to rise above 45° at many stations including London. On Friday and Saturday temperature rose to 60° or above in all districts, and to 70° and 71° respectively in England S. and E. The lowest of the minima were registered on the 8th or 9th in most parts of England, but later in the week at some Irish and Scotch stations; they varied from 29° in Scotland E., 30° in Scotland N., and 31° in Scotland W., England N.W., and the Midland Counties, to 35° in England S.W., and to 40° in the Channel Islands.

Rainfall was less than the mean over the Kingdom generally, but equal to it in the Channel Islands, and rather more in Scotland N. and E.

Bright Sunshine was very deficient except in Ireland N., where the percentage of the possible duration was 37 or just the normal figure. In the other districts the percentage ranged from 34 in Ireland S. and 33 in the Channel Islands, to 24 in England S., 21 in England N.E. and the Midland Counties, and to 13 in Scotland E. The highest figure at any individual station was 45 per cent. at Dublin, and the lowest 9 per cent. at Glasgow.

Barometer and Wind. During Sunday and Monday a depression was moving very slowly from our east coasts across the southern parts of the North Sea, the wind being moderate or fresh to strong from the North-Eastward in Scotland, from the Northward in Ireland, and from the North-Westward or Westward over England. By Tuesday another depression had appeared off the southwest of Ireland, and a trough of low pressure, containing several distinct minima, extended from Ireland across England to Denmark and the south of Scandinavia. The North-Easterly and Easterly winds accompanying this condition were only moderate or light in force, while the Westerly winds on our south coasts and over the English Channel were moderate or fresh. By Wednesday the distribution had undergone considerable change; an anticyclonic ridge stretched from the Peninsula to the northern parts of Great Britain, and both the Southerly winds in Ireland and those from the Northward on our east coasts were light. The ridge moved eastwards to the Continent, and was followed over our Islands by some slight disturbances secondary to a large system off our north-west coasts. Towards the end of the week depressions only skirted our west and north-west coasts, and a moderate to fresh current from the Southward, veering to South-West and West, set in over the entire Kingdom.

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Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	54	35	49·1	38·9	43·7	− 0·7	25	9	5	0·44	+ 0·02	*	*	*	*
	Stornoway	52	30	50·0	37·9	43·6	− 2·6	28	11	5	0·69	+ 0·13	45·5	+ 3·9	40	+ 3
	Wick	57	35	51·4	40·1	45·4	− 1·0	32	5	6	0·32	− 0·08	*	*	*	*
	Lairg Ş	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Glencarron Ş	58	32	50·6	38·0	43·9	− 2·5	30	11	5	1·69	+ 0·64	*	*	*	*
	Fort Augustus Ş	56	32	51·0	39·0	44·6	− 3·5	31	8	5	0·94	+ 0·48	14·6	− 14·9	13	− 13
	Fort William	60	36	52·2	41·4	46·5	− 2·3	34	2	4	1·64	+ 0·84	14·3	− 24·3	13	− 22
1. SCOTLAND, E.	Nairn	62	31	53·6	38·1	45·4	− 2·6	40	11	4	0·24	− 0·12	*	*	*	*
	Aberdeen	58	36	51·1	41·4	46·0	− 1·2	31	2	5	0·74	+ 0·29	19·0	− 23·0	17	− 21
	Braemar Ş	54	29	48·2	36·0	41·7	− 2·9	17	23	5	0·41	− 0·09	*	*	*	*
	Ochtertyre Ş	59	32	54·0	40·4	46·8	− 1·9	40	4	6	1·04	+ 0·51	*	*	*	*
	Leith	61	35	53·7	39·6	46·2	− 2·6	39	7	6	0·73	+ 0·36	*	*	*	*
	Marchmont Ş	58	34	50·4	39·7	44·7	− 2·1	29	6	3	0·72	+ 0·18	13·3	− 27·1	12	− 25
2. ENGLAND, N.E.	Alnwick Castle	64	33	54·8	40·7	47·3	+ 0·4	43	4	5	0·38	− 0·08	*	*	*	*
	Durham	66	34	54·0	40·9	47·1	− 0·6	40	3	3	0·31	− 0·13	20·0	− 17·7	18	− 16
	Shields	66	37	55·6	41·9	48·3	+ 1·0	45	0	4	0·25	− 0·11	*	*	*	*
	Scarborough M	65	37	55·3	43·8	49·2	+ 1·0	50	0	2	0·15	− 0·29	31·2	—	29	—
	Spurn Head	65	39	55·9	43·7	49·4	+ 1·0	52	0	1	0·01	− 0·35	*	*	*	*
	Lincoln	66	36	57·5	41·9	49·2	− 0·5	51	0	1	0·10	− 0·30	*	*	*	*
	Fulbeck (Lincolnshire)	66	37	57·6	42·2	49·4	− 0·3	52	0	2	0·04	− 0·38	21·6	—	20	—
3. ENGLAND, E.	Hillington M	69	32	58·1	41·2	49·1	− 0·6	53	2	1	0·03	− 0·37	22·4	− 23·0	21	− 21
	Yarmouth	70	39	55·4	43·9	49·3	+ 0·5	51	0	2	0·02	− 0·38	*	*	*	*
	Geldeston	71	34	58·3	42·4	49·9	+ 0·4	55	0	0	0·00	− 0·38	24·5	− 24·1	23	− 23
	Cambridge	67	34	57·9	42·1	49·5	− 1·4	53	0	3	0·19	− 0·21	22·3	− 22·2	21	− 21
	Felixstowe	69	39	54·0	44·5	49·0	+ 0·2	49	0	3	0·26	—	26·8†	—	25†	—
	Clacton-on-Sea	69	38	54·6	43·7	43·8	− 0·3	48	0	3	0·40	—	25·5†	—	24†	—
	Rothamsted	67	35	57·1	42·2	49·2	− 0·3	50	0	3	0·30	− 0·15	19·2	− 23·9	18	− 22
	Shoeburyness	70	37	57·3	44·3	50·4	+ 1·3	59	0	3	0·37	+ 0·07	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	65	34	55·1	40·3	47·3	− 0·2	44	5	4	0·45	+ 0·02	21·1	—	19	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	66	32	57·1	42·0	49·1	− 1·1	50	0	3	0·11	− 0·35	23·3	—	22	—
	Colly Weston (Stamford)	66	35	58·9	41·7	49·8	− 0·4	56	1	4	0·09	− 0·34	*	*	*	*
	Cheadle M	64	33	54·3	40·5	47·0	− 1·3	41	4	4	0·15	− 0·35	*	*	*	*
	Birmingham (Edgbaston)	65	33	55·6	43·3	49·1	− 0·1	50	0	4	0·25	− 0·25	19·4	—	18	—
	Shrewsbury	66	34	57·3	42·3	49·4	− 0·5	52	0	3	0·20	—	*	*	*	*
	Hereford M	66	32	59·1	40·5	49·2	− 1·5	57	4	4	0·18	− 0·28	*	*	*	*
	Cirencester	65	31	56·9	40·4	48·2	− 1·1	50	4	3	0·31	− 0·16	22·3	− 22·5	21	− 21
	Oxford	66	36	58·1	43·1	50·2	− 0·7	57	0	3	0·08	− 0·32	20·5	− 22·4	19	− 21
5. ENGLAND, S.	London	70	34	58·4	43·9	50·7	− 1·4	61	0	4	0·27	− 0·10	12·9‡	− 26·6‡	12‡	− 25‡
	Wisley	70	34	59·2	42·9	50·6	− 1·5	60	0	3	0·11	—	22·9	—	22	—
	Swarraton (Alresford) M	67	34	58·4	42·2	49·8	+ 0·6	55	0	3	0·30	− 0·14	*	*	*	*
	Tunbridge Wells M	69	33	57·6	41·6	49·1	− 1·0	51	1	4	0·19	—	24·5	—	23	—
	Dungeness	58	36	53·9	43·1	48·2	− 2·3	43	0	3	0·18	− 0·12	30·0	—	28	—
	Hastings (St. Leonards)	60	35	54·4	43·6	48·7	− 2·0	47	0	4	0·24	− 0·13	34·9	− 16·5	33	− 16
	Southampton	69	38	60·5	45·1	52·3	+ 0·2	72	0	4	0·39	− 0·03	25·8	− 21·9	24	− 21
	Portland Bill	57	38	53·7	44·4	48·8	− 2·2	48	0	4	0·18	—	*	*	*	*
	Shaftesbury M	65	36	57·4	43·4	50·0	+ 0·4	56	0	4	0·38	− 0·10	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Glasgow	55	36	51·8	42·6	46·9	− 1·6	54	0	6	0·59	+ 0·06	9·4	− 27·0	9	− 24
	Cally Ş	61	31	54·5	39·8	46·7	− 2·2	42	6	5	0·22	− 0·42	*	*	*	*
	Aspatria	60	34	53·5	40·9	46·8	− 1·3	38	3	3	0·58	—	18·7	—	17	—
	Douglas (Isle of Man)	58	35	53·2	43·7	48·2	− 0·5	43	0	2	0·06	− 0·45	37·8	− 12·2	35	− 11
7. ENGLAND, N.W.	Newton Rigg	60	31	52·5	39·7	45·7	− 1·4	36	6	5	0·40	—	19·5	—	18	—
	Stonyhurst	61	36	54·1	42·6	48·0	− 0·9	42	0	4	0·45	− 0·15	21·6	− 20·8	20	− 19
	Blackpool M	63	35	55·7	42·1	48·5	− 1·2	46	0	3	0·19	− 0·26	36·9	− 6·5	34	− 6
	Manchester (Prestwich)	63	35	55·5	41·6	48·1	− 0·9	44	1	4	0·38	− 0·14	18·2	—	17	—
	Liverpool Obsy. (Bidston)	64	36	56·3	43·6	49·6	− 0·8	53	0	3	0·24	− 0·18	30·6	—	28	—
	Chester (Hawarden Bridge)	67	36	58·0	44·7	51·0	0·0	63	0	2	0·19	—	*	*	*	*
	Llandudno M	64	37	56·0	43·8	49·5	− 0·9	53	0	1	0·30	− 0·10	40·5	− 3·4	38	− 3
	Holyhead	57	40	53·3	43·7	48·2	− 1·9	43	0	4	0·11	− 0·31	*	*	*	*
	Bettws-y-Coed	66	33	56·4	39·6	47·5	− 2·4	49	7	2	0·39	—	21·6	—	20	—
8. ENGLAND, S.W.	Pembroke	53	36	51·6	43·4	47·3	− 2·2	37	0	4	0·18	− 0·26	39·2	− 10·2	37	− 10
	Clifton	67	38	58·1	44·3	50·8	+ 0·2	62	0	4	0·25	− 0·27	*	*	*	*
	Bath	67	36	59·1	43·3	50·7	− 0·2	61	0	3	0·14	− 0·32	27·3	—	26	—
	Arlington (N. Devon)	64	35	56·0	40·9	48·0	− 1·1	47	3	5	0·41	− 0·22	*	*	*	*
	Cullompton M	66	36	59·7	43·1	50·9	− 0·1	62	0	4	0·50	+ 0·03	26·6	− 17·2	25	− 16
	Falmouth	62	37	56·5	45·5	50·7	− 0·3	61	0	5	0·81	+ 0·23	32·8	− 18·2	31	− 17
	Plymouth	63	38	56·2	45·2	50·4	− 1·8	59	0	4	0·27	− 0·19	37·3	− 10·4	35	− 10
9. IRELAND, N.	Malin Head	59	35	52·7	41·7	46·9	− 2·0	36	1	3	0·14	− 0·33	*	*	*	*
	Edenfel (Omagh)	60	34	56·7	41·7	48·8	+ 0·4	49	1	2	0·14	− 0·41	*	*	*	*
	Blacksod Point	57	41	52·9	45·1	48·8	− 1·2	48	0	5	0·47	− 0·17	*	*	*	*
	Markree Castle	61	35	57·6	43·3	50·0	+ 1·1	56	0	4	0·34	− 0·22	39·4	− 1·8	36	− 2
	Armagh	61	35	56·5	42·3	49·0	− 0·1	49	0	2	0·28	− 0·19	41·3	+ 1·0	38	+ 1
	Donaghadee	60	39	53·6	44·6	48·8	− 0·4	48	0		0·06	− 0·42	*	*	*	*
10. IRELAND, S.	Dublin	69	38	59·5	45·3	52·0	+ 0·9	70	0	4	0·11	− 0·33	48·6	+ 2·2	45	+ 2
	Birr Castle	67	34	57·6	41·7	49·2	− 0·7	52	1	3	0·52	+ 0·02	30·3	− 10·7	28	− 10
	Kilkenny	66	34	56·0	43·0	49·1	− 1·1	50	0	3	0·44	− 0·03	*	*	*	*
	Waterford	60	36	54·1	43·3	48·4	− 1·8	45	0	4	0·24	− 0·30	*	*	*	*
	Roche's Point	59	39	53·7	44·9	49·0	− 2·4	49	0	6	0·35	− 0·31	*	*	*	*
	Valencia	58	37	54·9	44·9	49·6	− 1·7	53	0	5	0·56	− 0·13	30·3	− 16·4	28	− 15
	Killarney	65	34	56·7	44·6	50·3	− 0·5	58	0	4	0·71	+ 0·01	*	*	*	*
	Foynes	63	37	56·8	42·0	49·0	− 1·2	49	0	3	0·32	− 0·21	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	40	54·3	46·6	50·2	− 1·3	57	0	6	0·33	− 0·07	31·1	− 21·5	30	− 21
	Jersey	67	41	58·1	48·0	52·8	+ 0·5	76	0	6	0·58	+ 0·14	35·1	− 19·3	33	− 18

Stations Marked M are in connection with the Royal Meteorological Society, and those marked Ş with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

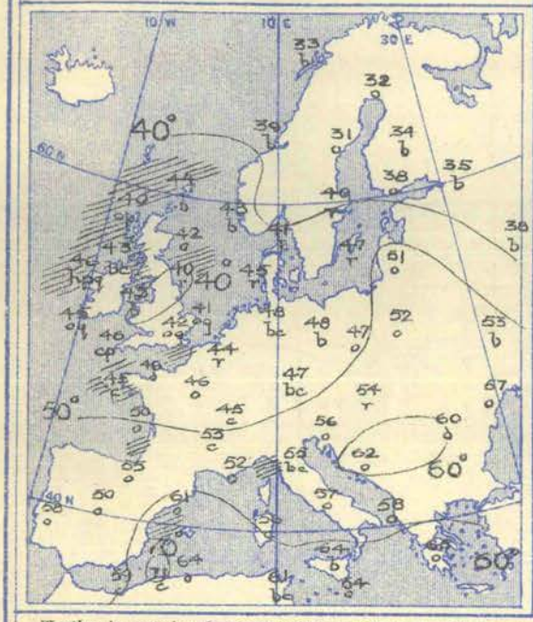
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

Note.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 8th May, 1904.

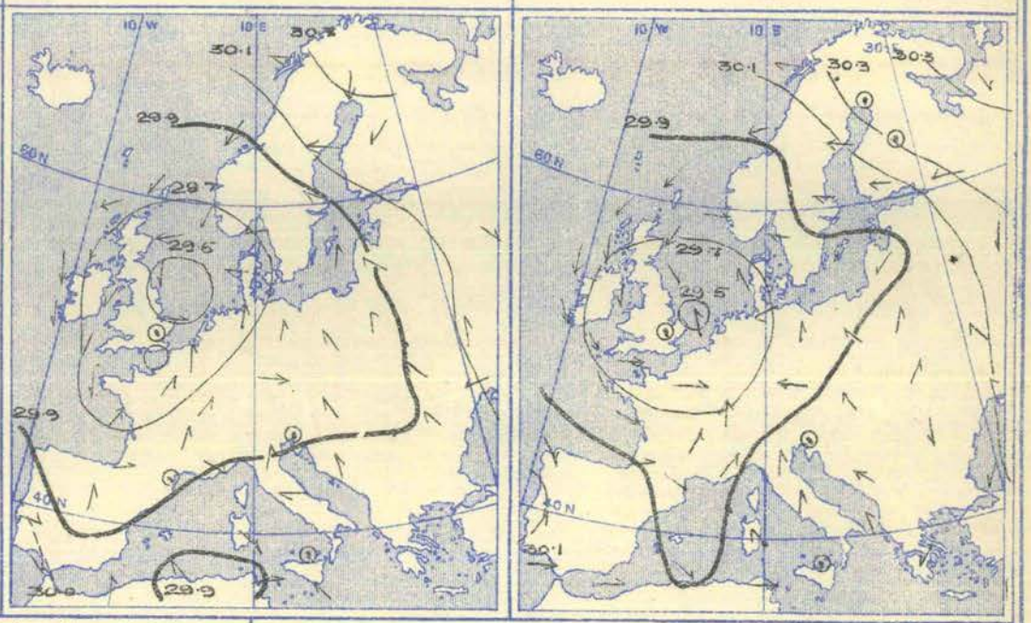
Temperature and Weather. 8 a.m.



Weather in morning fine and bright in places, mostly over northern Europe, but cloudy or overcast generally. Rainy in several parts of our Islands, the north of France, Belgium, Denmark, and the south-east of Sweden, and at Buda-Pesth, and snow falling at Karlstad. Rain falling in almost all regions later, but remaining dry in Spain and Portugal. Largest amounts, 0·5 in. at Aberdeen, Pesaro, and Helsingfors, 0·6 in. at Memel, and 1·2 ins. at Dunkirk.

Temperature risen over the south-east of Europe, fallen in most other regions. Morning readings ranging from 71° at Oran and 65° at Palermo and Patras, to below 50° over the United Kingdom and most parts of France and Germany, to 38° at Moscow, 33° at Bodö, and 31° at Hernösand. Remaining some degrees below 50° all day at nearly all our own stations, but rising above 60° in north Germany, and to 70° or above in Hungary and the countries bordering the Mediterranean. Highest values, 75° at Patras, 79° at Algiers, and 82° at Tunis. Grass frost at night in many parts of England.

Barometer and Wind. 8 a.m. and 6 p.m.

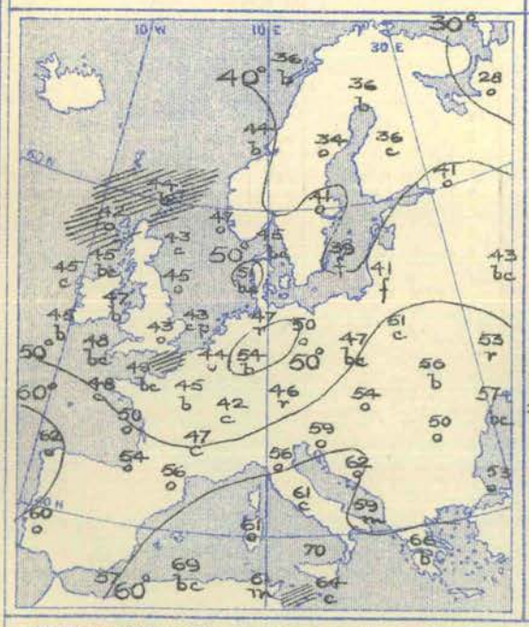


Wind in morning showing an extensive cyclonic circulation around the North Sea. North-Easterly to Northerly current fresh or strong in Scandinavia, Scotland, and Ireland. Light variable breezes prevailing in the most eastern and southern parts of our area. No general change later, but wind increasing from West-North-West on the west coast of France, and from South at Belfort.

Barometer at 8 a.m. ranging from 30·3 ins. in Lapland, above 30·2 ins. over the greater part of Russia, and 30·0 ins. in the south-west of Spain, to below 29·5 ins. in a depression having its chief minimum over the North Sea, not far from the coast of Yorkshire. Scarcely any change in the distribution during day, but pressure increasing slowly in most places, and disturbance over the North Sea becoming rather less deep.

Monday, 9th May, 1904.

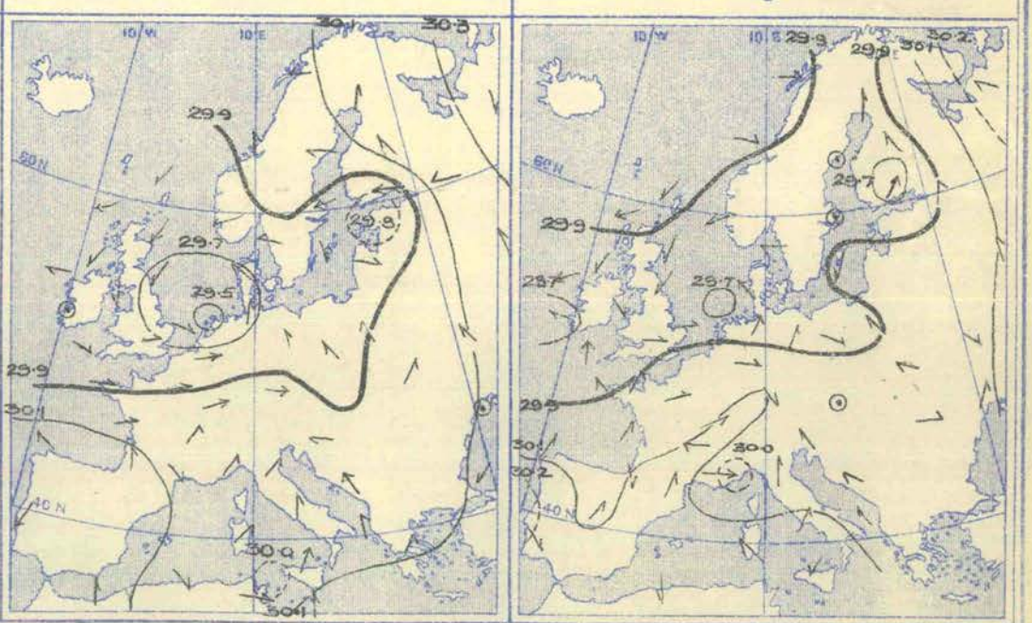
Temperature and Weather. 8 a.m.



Weather at 8 a.m. cloudy or dull in nearly all parts of our area, with rain or passing showers at some Scotch stations, at the mouth of the Elbe, Munich, and Kiev, and on the shores of the Gulf of Finland. Fine and bright in places—mostly in the extreme north and south. Rain falling later in most British localities and over the more northern and eastern parts of the Continent.

Temperature fallen in a few places, but risen as a whole. Readings in morning ranging from 70° at Palermo, 69° at Algiers, 66° in Greece, and 63° at Leghorn, to below 50° over all the northern and most parts of central Europe, to below 40° at several Finnish and Scandinavian stations, and to 28° at Archangel. Rising subsequently to 79° at Algiers, 75° in Greece and central Spain, 73° at Nice, and to 72° at Lemberg and Lésina. Remaining below 60° over the United Kingdom and in several French and German districts, and below 50° at some Scotch stations.

Barometer and Wind. 8 a.m. and 6 p.m.

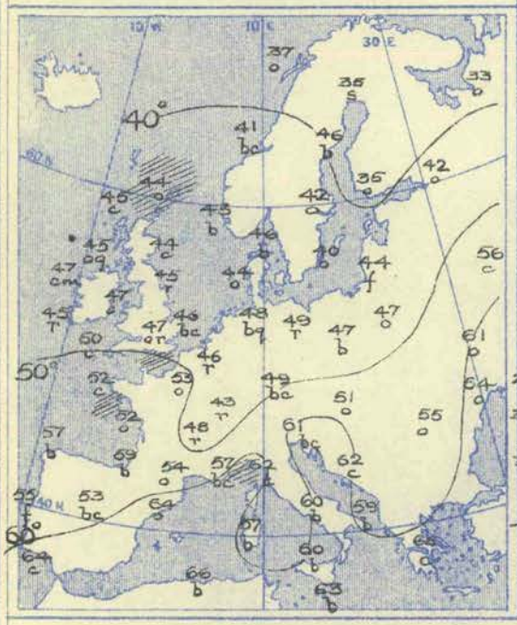


Wind at 8 a.m. showing two distinct cyclonic circulations—one around the North Sea and the other around the Gulf of Riga. Northerly current light or moderate over our northern and western coasts, but Easterly winds strong to a gale over the Gulf of Finland. Light and rather variable airs prevailing over the Mediterranean and its neighbourhood. Wind shifting to West and South-West in the south of Finland by evening, and moderating somewhat in force.

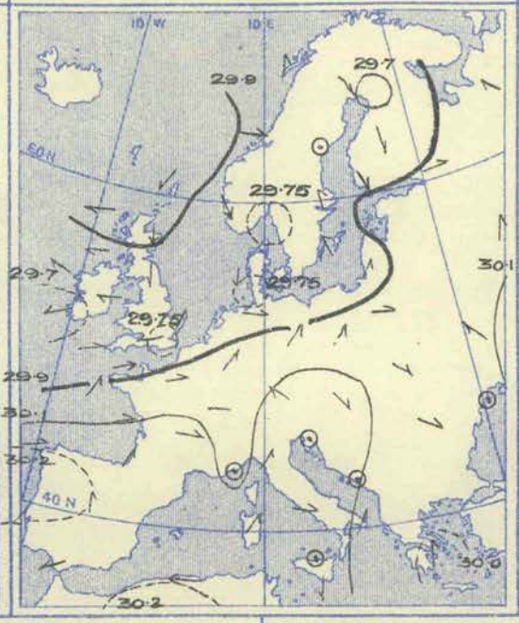
Barometer at 8 a.m. ranging from 30·3 ins. and upwards over Russia, and about 30·2 ins. in the south-west of Spain, to less than 29·8 ins. in a depression over the Gulf of Riga, and to below 29·5 ins. in another system centred near the Helder. Latter disturbance becoming less deep later, and the former moving northwards to Finland. Barometer falling slowly in Ireland, and another depression approaching that country from the Atlantic. A shallow disturbance forming over the Riviera and Gulf of Genoa.

Tuesday, 10th May, 1904.

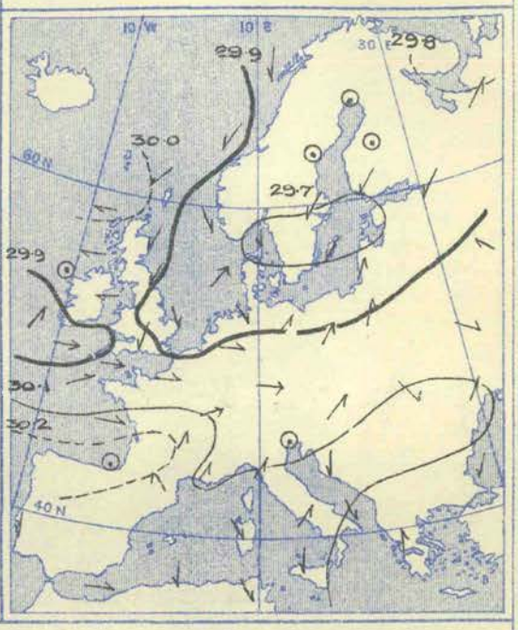
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine in many parts of southern Europe, but overcast or very cloudy over our area generally. Snow falling in the north of Sweden, at Berlin, Brussels, the east of France, in various parts of our Islands, and at Patras. Slight quantities of rain experienced during the ensuing twenty-four hours over the northern half of Europe, and as much as 0·95 in. at Limoges. A thunderstorm occurring at Lyons.

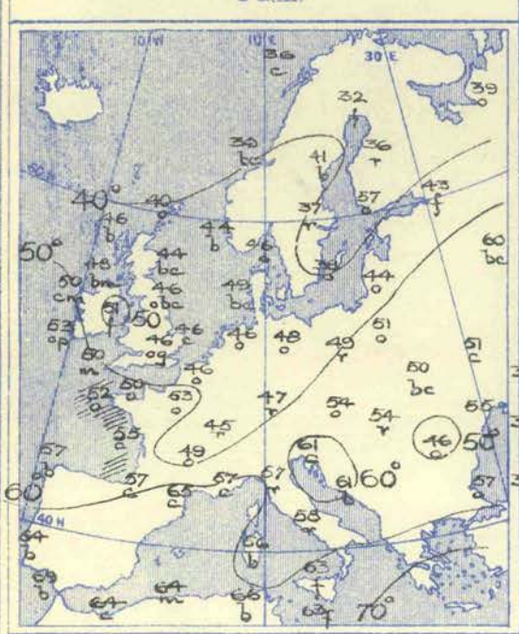
Temperature changed rather irregularly. Readings in morning ranging from 68° at Athens, 65° at Nicolaieff, 64° at San Fernando and Barcelona, and 62° at Leghorn and Lésina, to below 50° over the United Kingdom and the major part of central Europe, and to less than 40° in the far north. Lowest reading, 33° at Archangel. Rising during day to 60° or above in nearly all parts of France and the central countries, and to above 70° in the south. Highest values, 77° at Athens and Cagliari, 81° at Aumale, and 82° at Madrid. Thermometer only rising to a little above 50° in most parts of Great Britain, and remaining below it in places.

Wind at 8 a.m. somewhat variable in direction and mostly light. An irregular cyclonic movement prevailing around the southern half of our Islands, and other smaller cyclonic circulations over Denmark, the Baltic, and the extreme north of Europe. No general or decided change later except at Skudesnaes, where the wind, after blowing a North-Westerly gale, became very light.

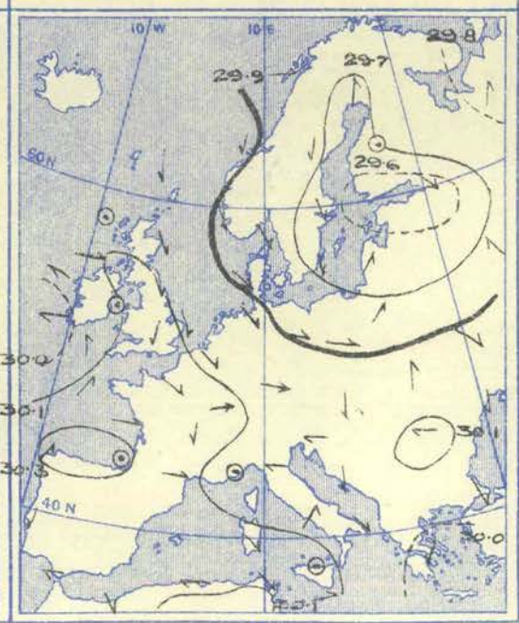
Barometer in morning highest, 30·1 ins. to 30·2 ins. in most southern regions, and above 29·9 ins. over and to the northward of Scotland, and lowest, less than 29·7 ins. in a depression over the north of Finland, and in another system off the south-west of Ireland. Below 29·8 ins. in a trough of relatively low pressure, containing several minima, extending from the south of Ireland to Denmark and East Prussia. Barometer rising in most regions later, and some of the minima disappearing.

Wednesday, 11th May, 1904.

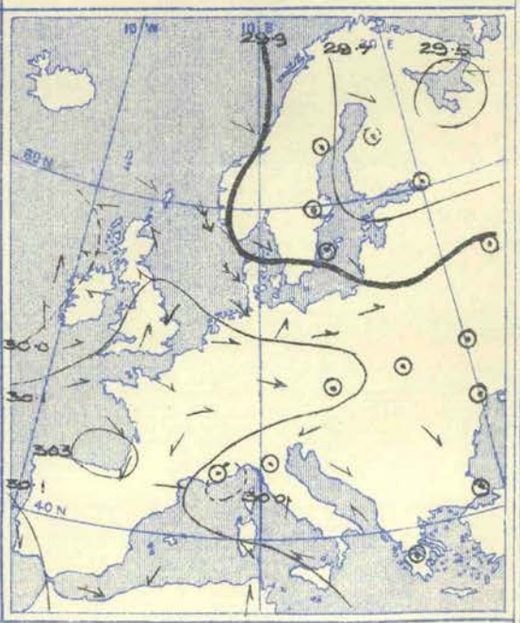
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull generally, with showers at Valencia Island, rain at Le Mans, Belfort, Florence, Kuopio, Stockholm, and in several parts of central Europe. Fine and bright at some stations in Norway and at many in the neighbourhood of the Mediterranean. Fog or mist prevailing on various parts of our south and west coasts. Slight rain experienced later in several northern and north-western regions, and as much as 0·79 in. at Hangö.

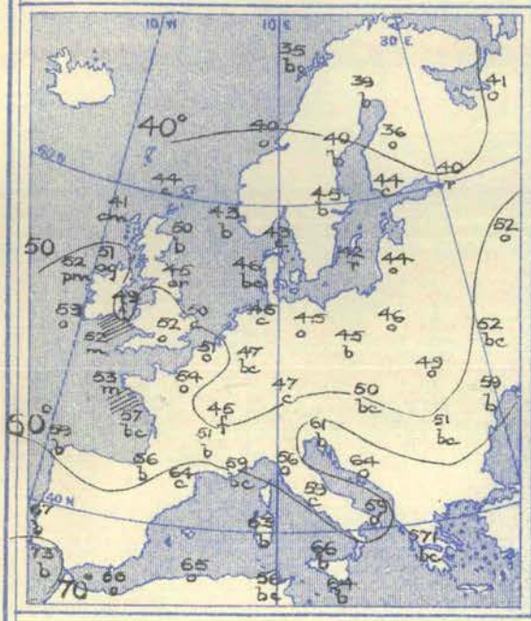
Temperature risen several degrees in some localities and fallen in others. Morning readings highest, 73° at Barcelona, 72° at Athens, 69° at San Fernando, 61° at Lésina and Trieste, and 60° at Moscow. Lowest, 32° at Haparanda, 37° at Stockholm, 40° at Sunburgh Head, 45° at Belfort, and 47° at Munich. Rising later to about 60° at a few of our own stations, to above 70° in the south of Europe generally, to 81° at Tunis, and to 86° at San Fernando.

Wind at 8 a.m. light or moderate in force in almost all places—anticyclonic over our Islands and the western countries of the Continent, and cyclonic in the north and north-east. Little change as a whole later, but North-Westerly wind rising to a fresh gale at Skudesnaes and Fanö.

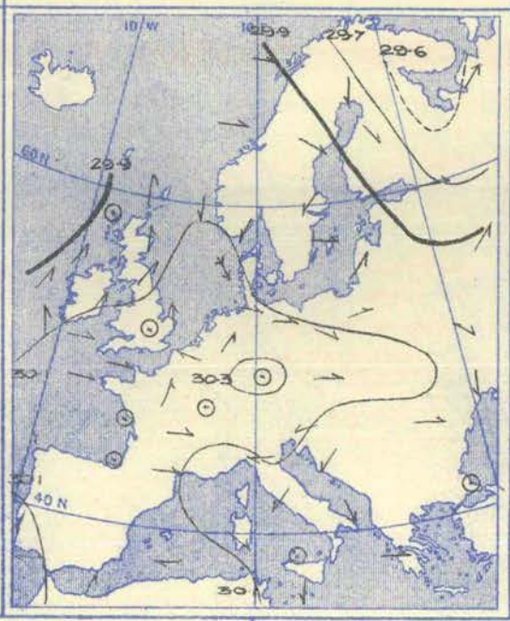
Barometer at 8 a.m. highest, above 30·3 ins. in an anticyclone over the north of Spain, and above 30·1 ins. in a ridge extending northwards to the south of Scotland. Lowest, less than 29·6 ins. in a shallow depression over the Gulf of Finland and its neighbourhood. Latter system moving north-eastwards during day, and a shallow disturbance appearing over the Gulf of Genoa. Barometer beginning to fall on our north-western coasts, and the anticyclonic ridge moving south-eastwards.

Thursday, 12th May, 1904.

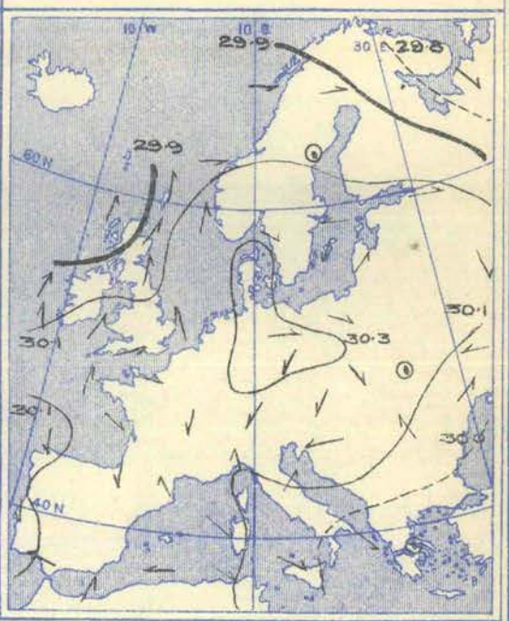
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in most parts of southern Europe, as well as in several central and northern localities. Cloudy or dull elsewhere, with rain at St. Petersburg Wisby, and at a few of our own stations, and fog or mist on our south-west coasts. Slight rain falling later in a few northern districts, but weather remaining dry generally.

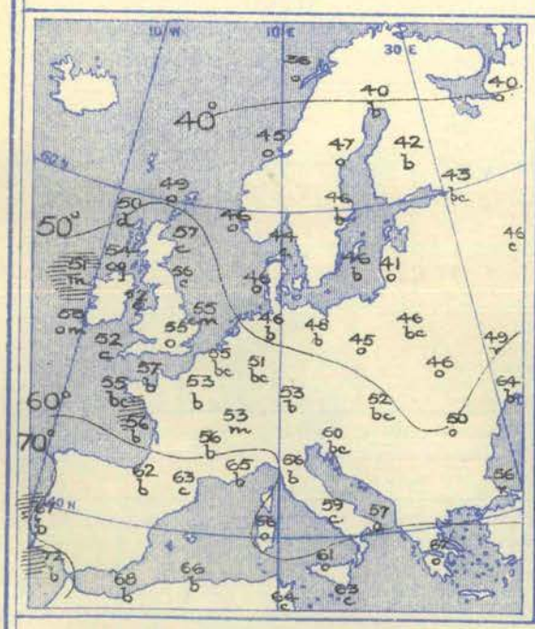
Temperature risen in most places, but fallen in central Europe. Morning readings highest, 73° at San Fernando, 71° at Patras, 69° at Oran, and 67° on the coast of Portugal. Lowest, 35° at Bodö, 36° at Kuopio, 40° at St. Petersburg, 41° at Stornoway, and 45° at Belfort and Breslau. Maxima during day, 67° in central Ireland, above 70° in most regions bordering the Mediterranean, 81° at Bilbao, 86° at Sfax, and 88° at Lisbon. Thermometer remaining below 50° in the most northern latitudes, and below 40° in a few places.

Wind at 8 a.m. light and anticyclonic over all the central and south-western regions, but cyclonic elsewhere. Strong to gale from the North-Westward on the coast of Jutland, and fresh from South-South-West along the west coast of Ireland, and from South-South-East at Yarmouth. Southerly current increasing in Ireland by evening, but that from the North-Westward in Jutland becoming very light.

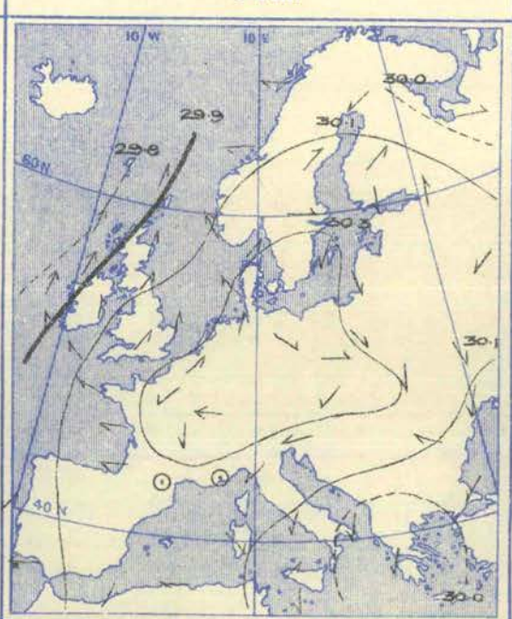
Barometer in morning ranging from 30·2 ins. to 30·3 ins. in a large anticyclone of irregular shape extending from the Iberian Peninsula across France to Hungary, to below 29·9 ins. (1) in a depression off our north-west coasts, and (2) in a small minimum near Gothland, and to about 29·6 ins. in a disturbance over the north of Russia. Anticyclone extending eastwards and north-eastwards during day, and north-western depression travelling north-eastwards off the west coast of Scotland.

Friday, 13th May, 1904.

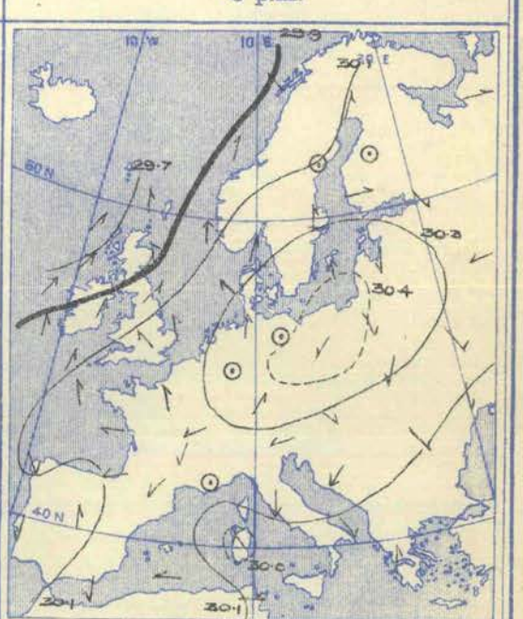
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine in most regions, but very cloudy or dull in many parts of the United Kingdom and Norway; rain falling on our extreme north-west coasts and also at Kiev and Constantinople. Very little rain falling later over our area generally, but slight amounts experienced on our north and north-west coasts and in a few parts of northern Europe.

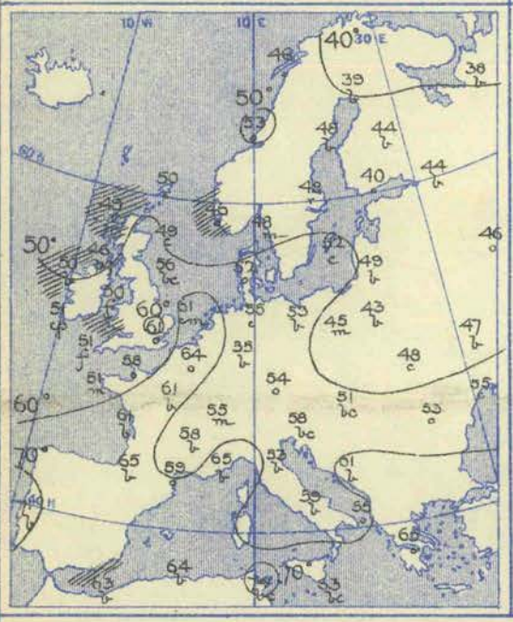
Temperature risen except at some central and southern stations. Morning readings ranging from 72° at Oporto and San Fernando, 67° at Athens, 65° at Nice, and 64° at Nicolaieff, to 58° at Liverpool, 57° at Aberdeen, to below 50° in many parts of Germany and northern Europe, to 40° at Archangel and Haparanda, and to 36° at Bodö. Rising to 67° in London and at Bath during day, to above 70° in most parts of France and southern Europe, to 88° at Lisbon, 90° at Madrid, and to 92° at Bilbao. Maximum only 54° at Cracow and 55° at Breslau.

Wind in morning showing a feeble anticyclonic movement over the major portion of our area. Moderate to fresh or strong winds from the Southward prevailing over our own western districts, and a light cyclonic circulation over the south-east of Europe. Scarcely any change occurring later.

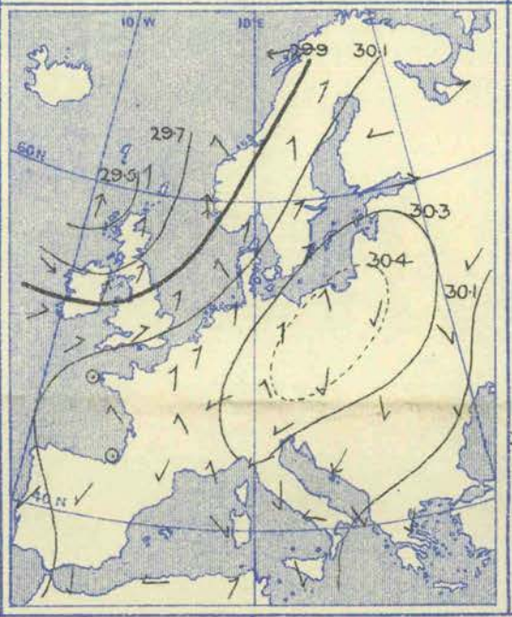
Barometer at 8 a.m. highest, above 30·3 ins. in a large high pressure area covering most of France, central Europe, Denmark, and the Baltic. Lowest, 29·8 ins. and less in a depression off our north-west coasts, and below 30·0 ins. in two other systems—one over the Balkan Peninsula, and the other over the White Sea. Continental anticyclone increasing in intensity during day, and pressure decreasing over our own northern districts. A small minimum forming over the southern portion of Sardinia.

Saturday, 14th May, 1904.

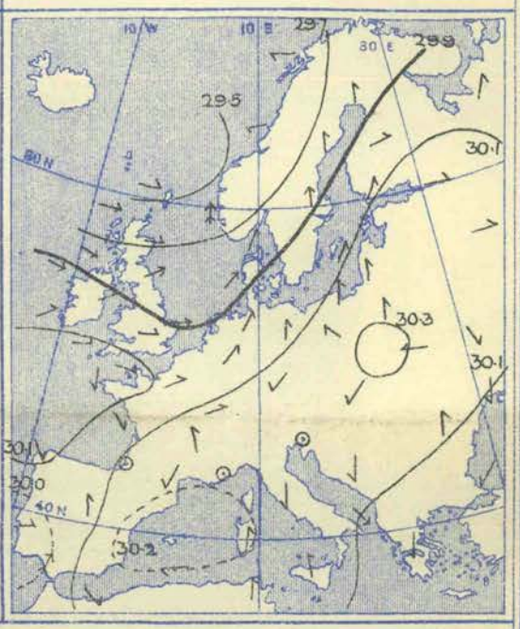
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over Europe generally, but cloudy or dull in most parts of the United Kingdom, Scandinavia, and Denmark. Rain falling in the south of Sweden and at some of our own north-western stations; fog prevailing at Holyhead and over the western half of the English Channel. Slight rain later in the north and north-west of these Islands, and heavy amounts in Scandinavia and Denmark. Thunderstorms experienced at Fanö and Cuxhaven.

Temperature risen in most places, but fallen in parts of central and south-eastern Europe. Readings at 8 a.m. highest, 77° at Oporto, 74° at Barcelona and Tunis, 65° at Nice, 64° in the Netherlands, and 61° at Paris and in London. Lowest, 38° at Archangel, 40° at Hangö, and below 50° in many parts of Poland and Hungary, as well as at some stations in the north of Ireland and Scotland. Rising during day to 70° at Yarmouth and in London, to 80° or above in many parts of southern Europe, to 91° at Lisbon, and 95° at Bilbao.

Wind at 8 a.m. Westerly to Southerly over our Islands, and Southerly to South-Easterly to the eastward of the North Sea, fresh or strong on our west and north-west coasts and also in Norway; a fresh gale blowing at Skudesnaes. A very extensive anticyclonic circulation prevailing over the major portion of the Continent. Wind veering to the Westward later throughout the United Kingdom, and continuing to blow freshly or strongly on many parts of our coasts.

Barometer at 8 a.m. ranging from 30·2 ins. to above 30·4 ins. in a very large high pressure area having its centre over central Europe and extending from Algeria to Archangel, to less than 30·1 ins. over the Balkan Peninsula, and to 29·4 ins. in a depression with its centre off the Hebrides. Anticyclone giving way somewhat during day, northern disturbance travelling towards the west coast of Norway, and pressure increasing decidedly on our north-west coasts.

IV.—GENERAL NOTES, etc.

During the earlier part of the week the distribution of pressure was somewhat irregular; no well-marked high pressure area was shown in any part of our area, while depressions lay over our Islands, Denmark, the Baltic, or Scandinavia. This condition continued until Tuesday, when an anticyclone appeared over the Spanish Peninsula and at first extending and subsequently moving north-eastwards, it finally became established over the continent, with its highest readings over the central countries. With this change the chief low pressure areas were confined to the Atlantic, where they moved north-eastwards and skirted our more western and northern coasts, while some slight disturbances also appeared in various parts of southern Europe. The winds experienced varied much in direction, but over the north-western countries they were at first mostly from between North-East and North-West, with a low temperature, occasional cold rain, and sleet or snow in places. During the latter half of the week the general wind current was mainly between South and West over our Islands and all the western parts of the continent and the thermometer several degrees higher than during the preceding days, while rain fell only on our north-west and north coasts and in various parts of northern Europe. Thunderstorms, accompanied by rather heavy rain, were experienced in Denmark and at the mouth of the Elbe at the end of the week. In the countries bordering the Mediterranean temperature was fairly high throughout the period, and maxima of 80° or above were very common in a few districts.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 110.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNESS	42·2	+ 2·3	37	+ 2	SHEFFIELD	23·0	—	21	—	WESTBOURNE	26·5†	- 21·2	27†	- 20
STRATHPEFFER SPA	13·1	- 25·2	12	- 22	WORKSOP	18·4	- 19·3	17	- 18	VENTNOR HOSPITAL	28·0	- 22·3	26	- 21
EDINBURGH	11·1	- 25·5	10	- 23	THURCASTON	30·4	- 9·4	28	- 9	BOURNEMOUTH	37·4	—	35	—
COCKLE PARK	24·6	—	22	—	MARGATE	24·5	- 18·8	23	- 18	MARLBOROUGH	24·4	- 16·4	23	- 15
NEWCASTLE-ON-TYNE	16·1	—	15	—	BROADSTAIRS	—	—	—	—	SOUTHPORT	31·1	—	29	—
YORK	15·4	- 24·6	14	- 23	RAMSGATE	22·7	—	21	—	RHYL	34·6	—	32	—
SKEGNESS	24·1	—	22	—	EASTBOURNE	31·6	- 18·0	30	- 17	ABERDOVEY	34·6†	—	32†	—
CROMER	26·7	—	25	—	BRIGHTON	25·9	- 21·9	25	- 25	TENBY	31·6	- 17·5	30	- 16
LOWESTOFT	27·5	—	26	—	WORTHING	24·5	—	33	—	TORQUAY	43·8	- 5·0	41	- 5
DUNMOW	19·0	—	18	—	BOGNOR	34·4†	—	33†	—	NEWQUAY	30·7	- 17·3	29	- 16
										GUERNSEY	36·5†	- 20·7	35†	- 20

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values below must be substituted for those which have already appeared.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Twenty Seventh Year No. 6, p. 32	Glasgow	—	—	41·2	—	38·0	- 1·0	—	28	—	—	—	—	—	—	—
" " " No. 6, p. 32	Cullompton	—	—	—	35·9	41·9	+ 1·0	—	25	—	—	—	—	—	—	—
" " " No. 7, p. 38	Sumburgh Head	—	—	—	—	—	—	—	—	6	1·14	+ 0·39	—	—	—	—
" " " " "	Hillington	—	—	42·8	—	37·5	- 1·3	2	—	—	—	—	—	—	—	—
" " " " "	Hereford	51	—	44·2	—	37·7	- 2·3	6	—	—	—	—	—	—	—	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 20. TWENTIETH WEEK, ENDING SATURDAY, MAY 21ST, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 116.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	67	32	53·4	41·2	46·9	1 below	38	− 9	2	− 3	273	− 70	477	− 62
	1. SCOTLAND, EAST	73	31	58·0	40·7	48·8	0 (average)	53	− 2	4	0	337	− 96	585	− 1
	2. ENGLAND, N.E.	72	32	59·4	43·5	51·0	1 above	63	+ 8	0	− 2	423	− 15	431	− 56
	3. ENGLAND, EAST	73	33	61·1	44·6	52·4	2 above	73	+ 3	0	− 2	480	− 76	404	−129
	4. MIDLAND COUNTIES	73	31	60·5	41·4	50·4	1 below	61	−10	2	− 1	458	−126	474	− 69
	5. ENGLAND, SOUTH	74	35	60·6	44·8	52·3	0 (average)	72	− 6	0	− 1	513	−118	345	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	72	31	57·1	41·7	48·9	1 below	50	−11	1	− 1	363*	−108	375	− 40
	7. ENGLAND, N.W.	78	33	58·3	42·6	50·0	1 below	56	− 9	0	− 1	387	−110	386	− 11
	8. ENGLAND, S.W.	72	38	58·8	44·5	51·2	1 below	64	− 7	0	− 1	557	− 69	252	− 53
	9. IRELAND, NORTH	67	36	56·1	42·3	48·8	1 below	48	−15	0	− 1	406	−145	337	− 18
	10. IRELAND SOUTH	70	38	58·1	43·9	50·5	1 below	60	−11	0	− 1	571	−114	232	− 24
	— CHANNEL ISLANDS	73	45	58·9	48·3	53·3	0 (average)	79	− 1	0	0	730	− 30	80	− 41

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 116.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	9	3 more	102	+15	22·8	+ 4·9	44	+ 5	38	+ 4	378	− 55	24	− 3
	1. SCOTLAND, EAST	2	1	4 less	87	+14	11·3	+ 0·9	62	+21	54	+18	426	− 52	27	− 3
	2. ENGLAND, N.E.	1	less than half	4 less	76	+ 7	7·7	− 0·3	63	+20	56	+17	462	− 52	29	− 3
	3. ENGLAND, EAST	2	1	3 less	73	+ 3	8·0	+ 0·4	65	+15	59	+14	503	− 62	31	− 4
	4. MIDLAND COUNTIES	2	3	2 less	84	+19	9·9	+ 0·9	60	+16	54	+14	430	− 50	27	− 3
	5. ENGLAND, SOUTH	2	6	2 more	83	+18	11·7	+ 2·2	61	+13	56	+12	485	− 59	30	− 4
Principal Grazing Districts.	6. SCOTLAND, WEST	3	5	2 less	90	+15	20·7*	+ 3·2	55	+13	49	+12	411	− 76	25	− 5
	7. ENGLAND, N.W.	2	1	4 less	84	+14	12·4	+ 1·6	57	+14	51	+12	438	− 30	27	− 2
	8. ENGLAND, S.W.	2	2	3 less	86	+13	15·6	+ 2·5	51	0	47	0	469	−110	29	− 7
	9. IRELAND, NORTH	4	2	3 less	103	+17	14·6	+ 2·6	41	− 1	36	− 1	407	− 77	25	− 5
	10. IRELAND, SOUTH	3	1	4 less	98	+20	17·0	+ 2·4	48	+ 2	43	+ 2	441	−104	27	− 6
	— CHANNEL ISLANDS	3	1	3 less	97	+20	15·7	+ 4·4	48	− 9	45	− 8	567	− 92	35	− 6

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was fair as a whole, but more particularly over the eastern half of the Kingdom. Slight rain fell at times in the northern and north-western districts, and heavier amounts towards the end of the period in the south. Thunder and lightning were experienced in a few places on Monday and also on Friday.

Temperature was much above the mean at the beginning of the week, but subsequently became as much below it, with the result that the average for the week was just equal to the normal in Scotland E., England S., and the Channel Islands, slightly above it in England E. and N.E., and a degree below it in all other districts. The highest of the maxima were recorded on the 16th, and ranged from 78° in England N.W., 74° in England S., and 73° in Scotland E., England E., the Midland Counties, and the Channel Islands, to 67° in Ireland N. and Scotland N. Towards the end of the week the maxima were nearly all below 60°, and at some stations in the north and north-west below 50°. The lowest of the minima, which were generally recorded on the 20th, varied from 31° in Scotland E., Scotland W., and the Midland Counties, to 38° in England S.W. and Ireland S., and to 45° in the Channel Islands.

Rainfall was less than the mean over the Kingdom as a whole, but rather more in Scotland N. and England S. In the eastern parts of Great Britain and in England N.W., Ireland S. and the Channel Islands the fall was very trifling.

Bright Sunshine was considerably in excess of the mean in almost all parts of Great Britain, but scarcely differed from the normal in England S.W. and over Ireland, and was rather deficient in the Channel Islands. The percentage of the possible duration ranged from 59 in England E. to 36 in Ireland N.

Barometer and Wind. During the earlier part of the week the highest pressures were either to the southward or south-eastward of our Islands, while depressions skirted our north-western and northern coasts on their way to Norway, and a secondary passed directly over the Kingdom. During this time the wind was mainly between South-West and West, and occasionally fresh or strong in force; in the rear of the last of these depressions the wind rose to a moderate gale from the North-Westward in the north of Scotland, and to a fresh gale at Malin Head. During Thursday night and Friday an anticyclone passed rather quickly over our Islands from the South-Westward to Scandinavia, and on Saturday a shallow depression had moved from the Bay of Biscay to the Channel and our southern counties causing the general direction of the wind to become Easterly.

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II.—DATA from which the SUMMARY on page 115 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	51	35	49·0	40·7	44·6	− 0·6	24	4	4	0·41	0·00	*	*	*	*
	Stornoway	59	40	53·3	41·9	47·3	+ 0·2	38	0	6	0·84	+ 0·30	46·8	+ 3·9	40	+ 3
	Wick	56	32	52·1	39·0	45·2	− 2·1	35	8	3	0·19	− 0·22	*	*	*	*
	Lairg Ⓢ	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Glencarron Ⓢ	67	39	52·9	40·7	46·4	− 1·6	36	4	6	1·82	+ 0·79	*	*	*	*
	Fort Augustus Ⓢ	67	37	56·9	41·2	48·6	− 0·6	50	2	3	0·66	+ 0·19	39·4	+ 8·9	34	+ 8
	Fort William	66	40	56·0	43·5	49·4	− 0·4	52	0	5	1·21	+ 0·43	37·0	− 3·2	32	− 3
1. SCOTLAND, E.	Nairn	70	36	57·9	41·3	49·1	0·0	53	2	3	0·12	− 0·24	*	*	*	*
	Aberdeen	60	34	55·0	41·9	48·1	− 0·2	43	0	3	0·06	− 0·40	67·3	+ 23·9	59	+ 21
	Braemar Ⓢ	60	31	55·7	38·7	46·7	+ 0·8	47	9	1	0·03	− 0·47	*	*	*	*
	Ochtertyre Ⓢ	66	35	59·4	39·4	48·8	− 1·1	59	7	1	0·04	− 0·49	*	*	*	*
	Leith Ⓢ	73	38	60·6	42·9	51·2	+ 1·2	64	0	2	0·02	− 0·35	*	*	*	*
	Marchmont Ⓢ	70	34	59·1	39·9	48·9	+ 0·9	57	6	0	0·00	− 0·54	64·3	+ 22·4	57	+ 20
2. ENGLAND, N.E.	Alnwick Castle	61	32	58·7	41·2	49·4	+ 1·4	55	2	0	0·00	− 0·46	*	*	*	*
	Durham	67	32	58·5	40·5	49·0	+ 0·1	55	4	0	0·00	− 0·44	62·5	+ 23·5	55	+ 21
	Shields	63	43	58·9	46·1	52·1	+ 3·6	71	0	3	0·04	− 0·33	*	*	*	*
	Scarborough Ⓜ	64	42	58·2	44·4	50·9	+ 1·5	62	0	1	0·06	− 0·38	67·2	—	60	—
	Spurn Head	65	45	59·0	46·3	52·3	+ 2·6	72	0	0	0·00	− 0·36	*	*	*	*
	Lincoln	72	37	61·7	43·1	51·8	+ 0·6	69	0	1	0·11	− 0·31	*	*	*	*
	Fulbeck (Lincolnshire)	72	38	60·7	42·8	51·2	+ 0·1	64	0	3	0·05	− 0·37	61·4	—	55	—
3. ENGLAND, E.	Hillington Ⓜ	73	37	63·3	40·9	51·4	+ 0·4	70	3	0	0·00	− 0·40	62·0	+ 14·6	56	+ 13
	Yarmouth	66	43	59·4	46·9	52·8	+ 2·7	76	0	1	0·12	− 0·28	*	*	*	*
	Geldeston	70	33	61·2	42·7	51·4	+ 0·6	68	0	2	0·07	− 0·32	62·0	+ 11·8	56	+ 11
	Cambridge	71	35	63·1	41·5	51·7	− 0·3	70	1	2	0·10	− 0·32	63·9	+ 17·8	58	+ 16
	Felixstowe	69	43	59·1	47·4	52·9	+ 3·1	76	0	1	0·03	—	63·4†	—	58†	—
	Clacton-on-Sea	68	43	59·9	47·7	53·4	+ 3·8	80	0	1	0·08	—	66·0†	—	61†	—
	Rothamsted	69	35	61·4	41·9	51·1	+ 0·2	64	0	3	0·52	+ 0·07	61·2	+ 16·6	56	+ 15
	Shoeburyness	68	44	61·7	47·7	54·3	+ 4·4	86	0	2	0·07	− 0·23	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	66	34	58·1	41·1	49·1	+ 0·4	53	3	2	0·05	− 0·39	61·1	—	55	—
	Bawtry (Hesley Hall)	70	—	62·3	—	—	—	—	—	2	0·05	− 0·39	*	*	*	*
	Nottingham	72	32	60·7	41·1	50·3	− 1·0	62	3	1	0·02	− 0·45	64·1	—	58	—
	Colly Weston (Stamford)	73	35	63·1	41·7	51·8	+ 0·1	70	1	0	0·00	− 0·45	*	*	*	*
	Cheadle Ⓜ	69	39	58·6	40·9	49·2	− 0·3	55	3	3	0·08	− 0·45	*	*	*	*
	Birmingham (Edgbaston)	70	40	60·7	43·2	51·4	+ 0·8	66	0	2	0·61	+ 0·10	60·6	—	55	—
	Shrewsbury	69	31	60·9	40·1	49·9	− 1·3	63	5	4	0·41	—	*	*	*	*
	Hereford Ⓜ	71	37	61·8	41·4	51·0	− 1·0	66	2	3	0·39	− 0·08	*	*	*	*
	Cirencester	69	36	59·8	40·0	49·3	− 1·4	60	6	4	0·65	+ 0·17	53·8	+ 7·4	49	+ 7
	Oxford	69	37	61·0	43·3	51·6	− 0·5	67	0	3	0·60	+ 0·20	59·0	+ 14·4	54	+ 13
5. ENGLAND, S.	London	73	42	64·6	45·9	54·7	+ 1·4	89	0	2	0·47	+ 0·10	59·2‡	+ 17·6‡	54‡	+ 16‡
	Wisley	74	35	63·5	43·7	53·0	− 0·5	77	0	2	0·72	—	61·1	—	56	—
	Swarraton (Alresford) Ⓜ	71	35	61·0	42·2	51·0	+ 0·5	63	0	2	1·40	+ 0·96	*	*	*	*
	Tunbridge Wells Ⓜ	71	39	62·2	43·9	52·5	+ 1·4	74	0	1	0·37	—	67·5	—	62	—
	Dungeness	63	42	57·3	45·9	51·3	− 0·6	65	0	2	0·10	− 0·20	62·8	—	58	—
	Hastings (St. Leonards)	66	42	58·4	45·3	51·5	− 0·5	67	0	3	0·54	+ 0·18	64·0	+ 10·7	59	+ 10
	Southampton	69	43	63·6	46·0	54·3	+ 1·0	86	0	2	0·93	+ 0·53	60·7	+ 11·4	56	+ 11
	Portland Bill	59	46	55·9	47·0	51·2	− 0·5	64	0	1	0·30	—	*	*	*	*
	Shaftesbury Ⓜ	67	40	59·3	43·3	50·8	− 0·1	62	0	2	0·51	+ 0·04	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	64	38	55·9	42·9	49·0	− 1·2	49	0	4	1·53	+ 0·70	*	*	*	*
	Glasgow	66	40	57·0	42·7	49·4	− 0·4	52	9	3	0·24	− 0·32	51·8	+ 14·1	45	+ 12
	Cally Ⓢ	65	31	57·9	39·1	47·9	− 1·9	53	8	3	0·24	− 0·40	*	*	*	*
	Aspatria	72	37	58·4	41·6	49·5	+ 0·1	54	1	1	0·07	—	49·7	—	44	—
	Douglas (Isle of Man)	61	35	56·1	42·3	48·8	− 1·1	48	0	2	0·34	− 0·16	64·1	+ 12·7	57	+ 11
7. ENGLAND, N.W.	Newton Rigg	68	33	57·8	39·5	48·1	− 0·2	53	7	2	0·11	—	58·5	—	52	—
	Stonyhurst	68	37	57·0	42·1	49·1	− 1·1	50	0	2	0·19	− 0·43	58·8	+ 14·7	53	+ 13
	Blackpool Ⓜ	70	35	57·9	42·3	49·6	− 1·4	53	0	1	0·05	− 0·41	53·7	+ 8·7	48	+ 8
	Manchester (Prestwich)	68	35	59·5	41·3	49·9	− 0·3	58	2	3	0·13	− 0·41	56·3	—	51	—
	Liverpool Obsy. (Bidston)	69	43	57·7	44·9	50·9	− 0·6	62	0	2	0·07	− 0·35	51·8	—	47	—
	Chester (Hawarden Bridge)	72	35	59·6	43·4	51·0	− 1·3	63	0	2	0·12	—	*	*	*	*
	Llandudno Ⓜ	76	40	59·0	44·6	51·4	− 0·1	66	0	2	0·25	− 0·17	63·3	+ 17·5	57	+ 16
	Holyhead	69	42	57·0	45·0	50·6	− 0·5	60	0	2	0·11	0·30	*	*	*	*
	Bettws-y-Coed	78	34	59·6	40·7	49·6	− 1·5	59	4	3	0·13	—	54·2	—	49	—
8. ENGLAND, S.W.	Pembroke	60	43	53·6	45·7	49·4	− 1·3	52	0	2	0·04	− 0·40	51·8	+ 0·7	48	+ 1
	Clifton	72	42	61·1	45·4	52·8	+ 1·0	76	0	2	0·52	− 0·01	*	*	*	*
	Bath	71	39	60·9	43·9	51·9	− 0·3	69	0	2	0·37	− 0·10	56·3	—	52	—
	Arlington (N. Devon)	68	39	57·4	41·7	49·1	− 1·3	51	1	4	0·10	− 0·54	*	*	*	*
	Cullompton Ⓜ	70	38	62·1	42·6	51·8	− 0·4	69	0	1	0·02	− 0·45	44·9	− 0·7	42	− 1
	Falmouth	62	43	57·0	46·0	51·2	− 0·9	64	0	4	0·31	− 0·25	53·5	+ 0·6	50	+ 1
	Plymouth	70	43	59·7	46·0	52·4	− 0·9	73	0	2	0·04	− 0·40	51·9	+ 2·2	48	+ 2
9. IRELAND, N.	Malin Head	63	39	54·1	42·1	47·7	− 2·0	40	0	4	0·16	− 0·32	*	*	*	*
	Edenfel (Omagh)	67	37	57·6	40·9	48·8	− 0·7	52	3	3	0·23	− 0·31	*	*	*	*
	Blacksod Point	56	44	53·7	45·7	49·5	− 1·5	53	0	4	0·14	− 0·49	*	*	*	*
	Markree Castle	61	39	56·8	41·9	48·9	− 0·9	49	0	5	0·25	− 0·32	33·1	− 9·6	30	− 9
	Armagh	66	36	57·5	41·0	48·8	− 1·4	52	3	3	0·26	− 0·22	48·4	+ 6·7	43	+ 6
	Donaghadee	62	36	57·0	42·4	49·3	− 1·0	51	0	3	0·27	− 0·23	*	*	*	*
10. IRELAND, S.	Dublin	70	42	60·5	45·1	52·3	+ 0·1	72	0	4	0·14	− 0·31	56·7	+ 8·4	51	+ 8
	Birr Castle	65	40	58·6	43·9	50·8	− 0·4	62	0	4	0·19	− 0·31	43·6	+ 1·9	39	+ 2
	Kilkenny	60	38	53·1	42·3	49·7	− 1·8	54	0	2	0·13	− 0·34	*	*	*	*
	Waterford	61	38	58·6	41·7	49·6	− 1·8	54	1	0	0·00	− 0·53	*	*	*	*
	Roche's Point	58	40	55·7	44·6	49·8	− 2·7	55	0	3	0·18	− 0·47	*	*	*	*
	Valencia	59	39	55·6	45·4	50·2	− 1·9	57	0	5	0·30	− 0·37	43·6	− 4·1	40	− 4
	Killarney	64	41	59·9	44·3	51·6	− 0·2	67	0	3	0·16	− 0·52	*	*	*	*
	Foynes	64	39	57·5	43·9	50·3	− 0·9	58	0	0	0·00	− 0·52	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	59	47	57·7	48·0	52·6	+ 0·1	74	0	2	0·03	− 0·34	47·0	− 7·4	44	− 7
	Jersey	73	45	60·0	48·6	54·0	+ 0·6	84	0	3	0·16	− 0·27	43·9	− 12·7	41	− 12

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

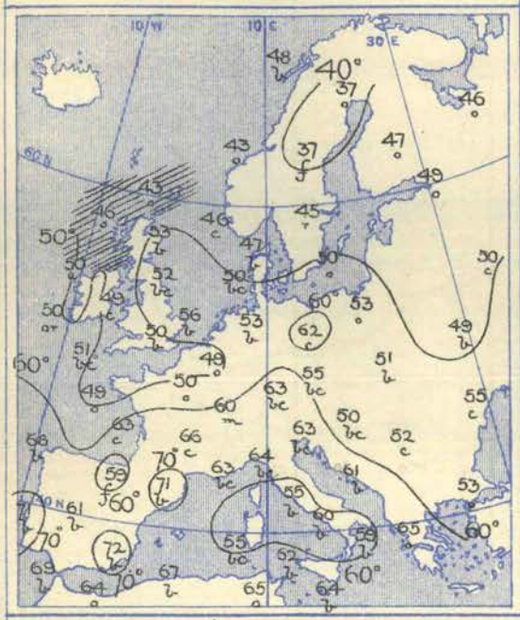
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

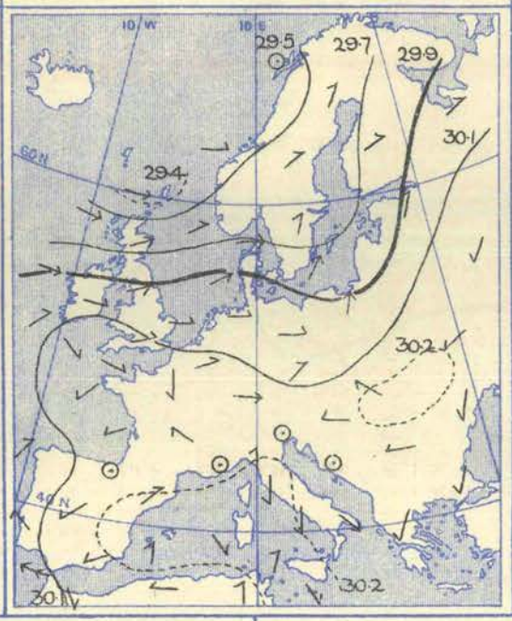
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 15th May, 1904.

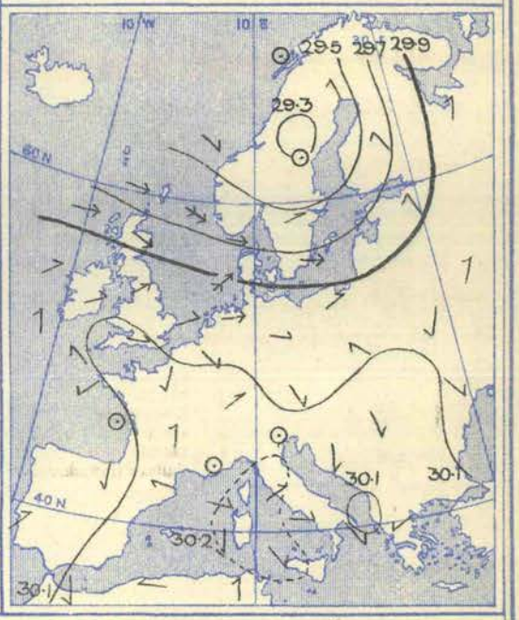
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in most regions, but cloudy or overcast in Ireland, Scotland, many parts of France, Scandinavia, and Finland, with rain at Nairn and Stockholm. Sky clearing later over France, Ireland, and Scotland, but remaining overcast, with rain in most parts of Norway and Sweden; as much as 0·8 in. of rain recorded at Haparanda.

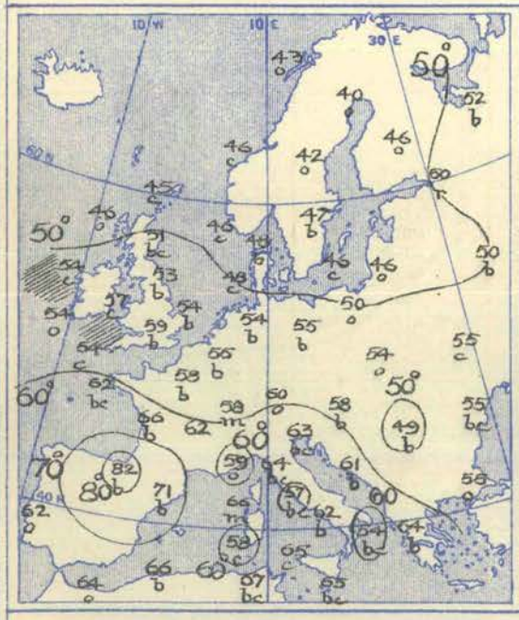
Temperature risen over central, fallen over north-western Europe. Readings at 8 a.m. ranging from 72° to 70° at several Spanish stations, 68° at Cape Sicié, 65° at Tunis and Patras, and 62° at Berlin to 50° or below in most parts of our Islands and the greater portion of Hungary, Russia and northern Europe, and to 37° at Haparanda. Rising during day to 88° at Toulouse, 86° at Lisbon, 82° at Sfax, between 70° and 80° in the south generally, to 70° in London, and to nearly 60° in the south of Sweden. Maxima not much above 50° at some of our own western and northern stations.

Wind in morning moderate to fresh from the Westward over our Islands and Denmark, and from the Southward over the Baltic, Finland, and Sweden. Light and variable airs prevailing over central and southern Europe. Westerly wind increasing to a moderate gale at Wick by evening and to a fresh gale at Skudesnaes and on the west coast of Jutland.

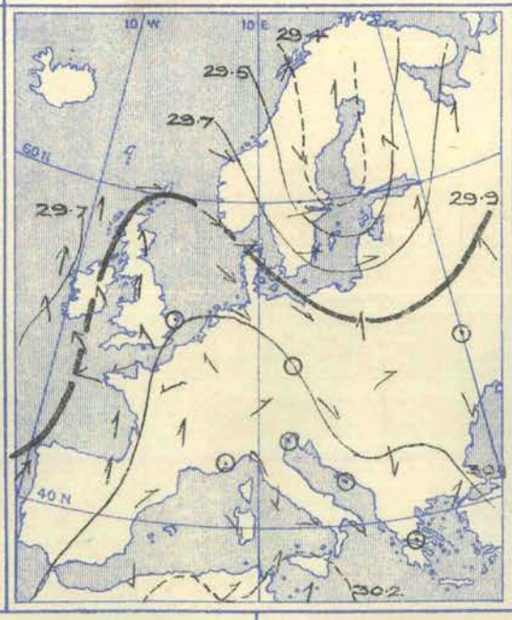
Barometer at 8 a.m. highest, 30·1 ins. to 30·2 ins. and upwards, in a large and irregularly shaped high pressure area extending from our south-west coasts across France, southern and central Europe to the central and northern parts of Russia. Lowest, less than 29·4 ins. in a depression centred to the northward of the Shetlands. Pressure changing rather irregularly during day; falling slowly over the Bay of Biscay and our south and south-west coasts, and briskly in the north of Sweden, rising decidedly in Scotland.

Monday, 16th May, 1904.

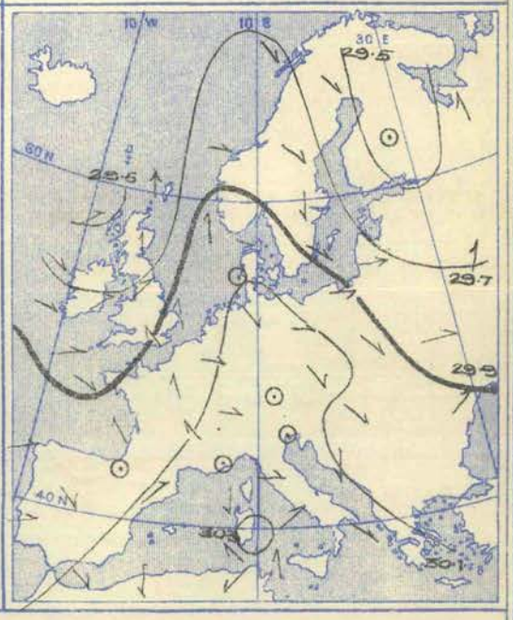
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull in most parts of Finland and on the shores of the Baltic and Gulf of Bothnia, as well as in Portugal and on our extreme west and north coasts. Fine generally elsewhere, but rainy at St. Petersburg. Slight rain falling later in a few Irish and Scotch localities and at some Scandinavian and Russian stations, but sky remaining clear as a whole.

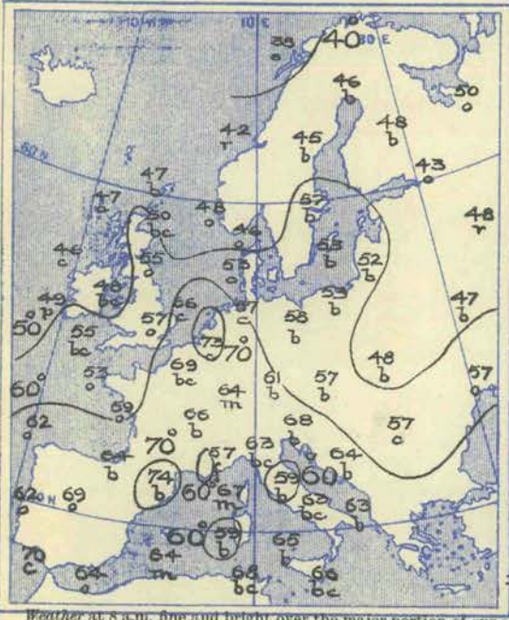
Temperature changed irregularly. Readings in morning highest, 82° at Biarritz, 71° at Barcelona, 67° at La Calle, above 60° at most southern stations, and 59° in London. Lowest, 40° at Haparanda, 41° at Hangö, a little below 50° in the north of Scotland, at Hermanstadt, and in most parts of northern Europe, and only 52° at Portland Bill. Maxima during day as high as 73° at Leith and in London, and a few degrees higher in most southern regions. Much higher in a few places—86° at Lyons, 90° at Limoges, 95° at Madrid, and 99° at Biarritz. Thermometer not touching 50° in Norway, but rising to 59° at Stockholm and St. Petersburg.

Wind at 8 a.m. moderate to fresh from South or South-East along our western coasts, and light from the same quarters over our Islands generally. Light to strong from the Westward to the eastward of the North Sea and over the Baltic, and light from the Southward over Finland and northern Russia. Light variable airs prevailing over all the central and southern countries. Wind veering to South-West or West over our Islands by evening or night, and backing to South on the south-west coast of Norway.

Barometer at 8 a.m. ranging from above 30·1 ins. in a large area embracing most of the central, western, and southern countries of the Continent to below 29·7 ins. in a depression advancing towards our west coasts, and to below 29·4 ins. in a depression over the Gulf of Bothnia. A large "V" shaped disturbance stretching from Spain to the north of Scotland by evening, and a recovery of pressure commencing on our most western coasts. Northern depression moving eastwards.

Tuesday, 17th May, 1904.

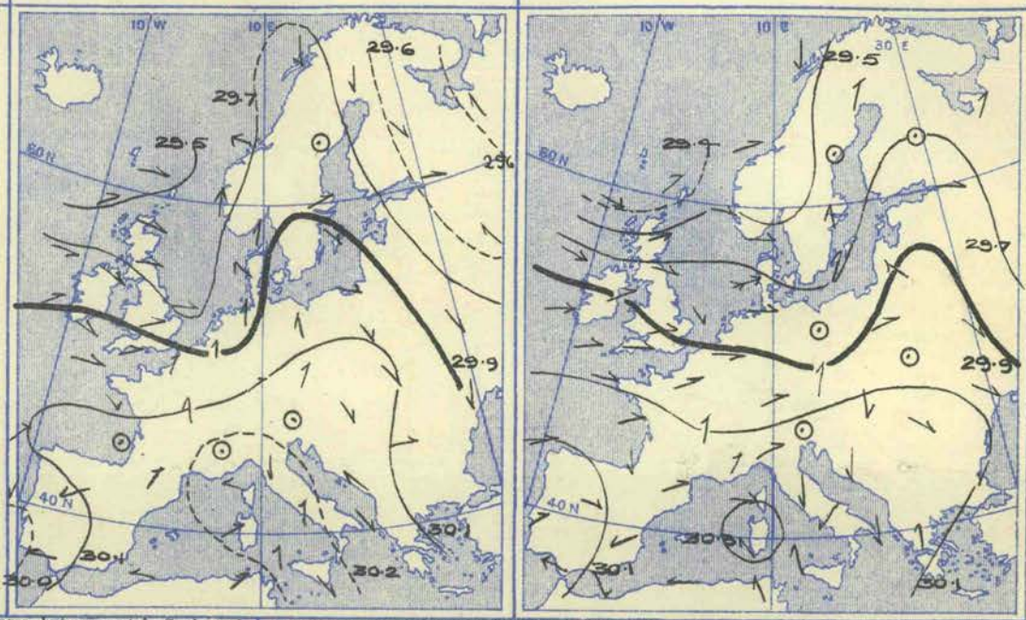
Temperature and Weather. 8 a.m.



Weather at 8 a.m. fine and bright over the major portion of our area, but overcast in Spain and Portugal, Russia, Denmark, and Norway, with rain at Moscow and Christiansund, and snow at Bodö. Cloudy at several of our own stations and showery in the south-west and north of Ireland. Remaining fine and dry generally, but rain falling at our northern and western stations, over Scandinavia, and North Germany, as well as in the west of France—a thunderstorm occurring at Bordeaux.

Temperature fallen over the greater part of our Islands, the west of France, and in Russia and Poland, risen elsewhere. Morning values highest, 74° at Barcelona, 73° at Brussels, 70° at San Fernando, 68° at Cape Sicié and Trieste, and 66° at Malta and Lyons. Lowest, 38° at Bodö, 43° at St. Petersburg, 50° or below at most of our more western and northern stations and also over the northern parts of the Continent. Rising later to 93° at Madrid, to above 80° at many French and German stations, and to nearly 80° in most southern regions. Thermometer touching 68° in London, but remaining below 60° over our western and northern districts.

Barometer and Wind. 8 a.m. and 6 p.m.

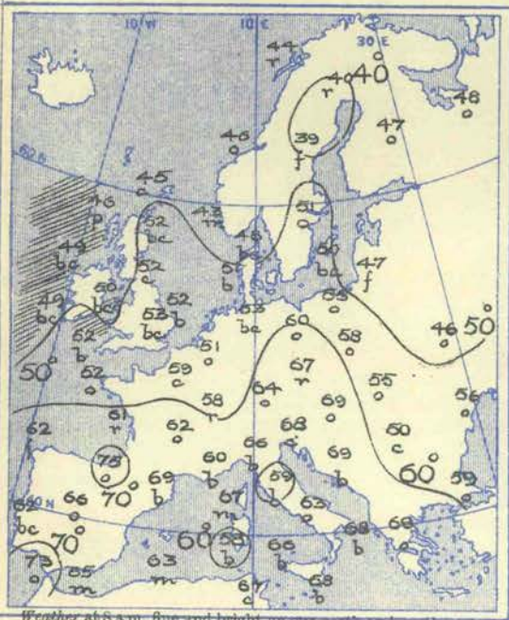


Wind at 8 a.m. showing a feeble anticyclonic circulation over central and southern Europe. Light to moderate breezes mainly from between West and South prevailing over the northern countries. Westerly wind increasing to a fresh gale later at Malin Head and to a strong breeze on our west and north-west coasts generally. No great change as a whole on the Continent, but a South-West gale springing up at Fanö.

Barometer fallen over Great Britain, France, and Russia. Morning readings ranging from 30·1 ins. to above 30·2 ins. in a large area over the central and southern countries to below 29·6 ins. in a depression over the north of Russia, and to less than 29·5 ins. in another system off the north of Scotland. Below 29·7 ins. in a "V" shaped secondary off the east of England. Scotch disturbance increasing in depth during day, and its secondary moving north-eastwards to the Continent. Russian depression disappearing.

Wednesday, 18th May, 1904.

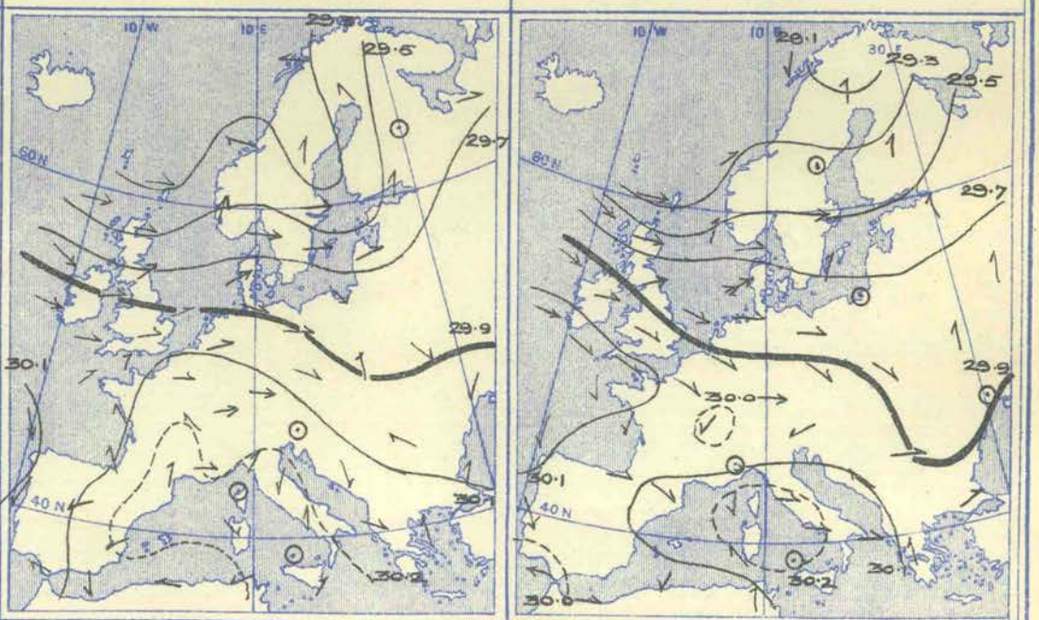
Temperature and Weather. 8 a.m.



Weather at 8 a.m. fine and bright on our north and south-east coasts, over Denmark, the south of Sweden, and on most shores of the Mediterranean, but dull or cloudy over our area as a whole. Showery at some of our own western and north-western stations, and rainy in the north of Scandinavia, and also at Vienna and Belfort. Slight rain falling later in most parts of our Islands, and heavier falls in Scandinavia, Russia, and central Europe, and thunderstorms occurring in France. Largest measurements, 0·6 in. at Haparanda and Besançon, 1·0 in. at Munich, and 1·6 ins. at Sanguinaires.

Temperature fallen generally, but risen on the north-west of Norway, the south-west of France, and at most German and Austria-Hungarian stations. Morning readings highest, 76° at Palma, 75° at Biarritz, 70° at La Calle, and 69° at Vienna and Athens. Lowest, 39° at Hernösand, and below 50° over our north-west and extreme north districts, Scandinavia, and the greater part of Russia. Rising during day to 66° at Skegness, to between 70° and 80° in the southern regions of Europe, and to above 80° in places. Highest values, 84° at Biarritz and 86° at Toulouse.

Barometer and Wind. 8 a.m. and 6 p.m.

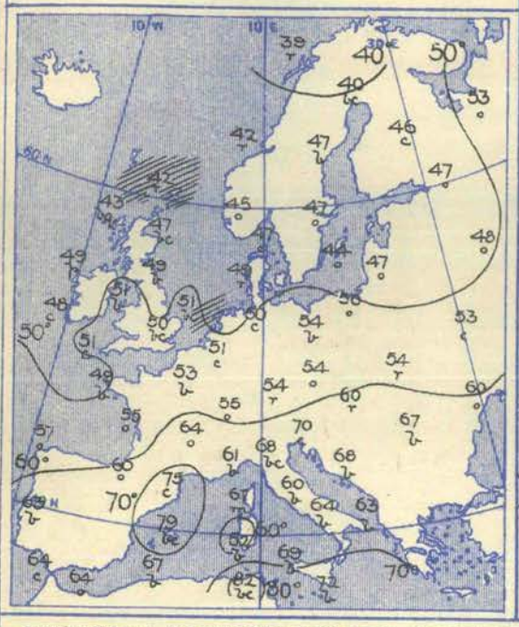


Wind in morning very light and anticyclonic in the south and cyclonic—between west and south or south-east—in the more northern countries. Westerly current moderate to strong over our Islands, Denmark, and the south of Scandinavia, and reaching the force of a fresh gale at Malin Head. Little change in direction later, but force increasing over the United Kingdom, and a fresh gale setting in on the coast of Jutland.

Barometer in morning ranging from 30·1 ins. to above 30·2 ins. in a large high pressure area covering most of the southern countries and the Mediterranean to less than 29·3 ins. in a large and complex depression lying off the north of Scotland and central Scandinavia. A shallow disturbance forming over the south-east of France later and a renewed fall of the barometer taking place off the north of Scotland. Scandinavian minimum travelling northwards to Lapland.

Thursday, 19th May, 1904.

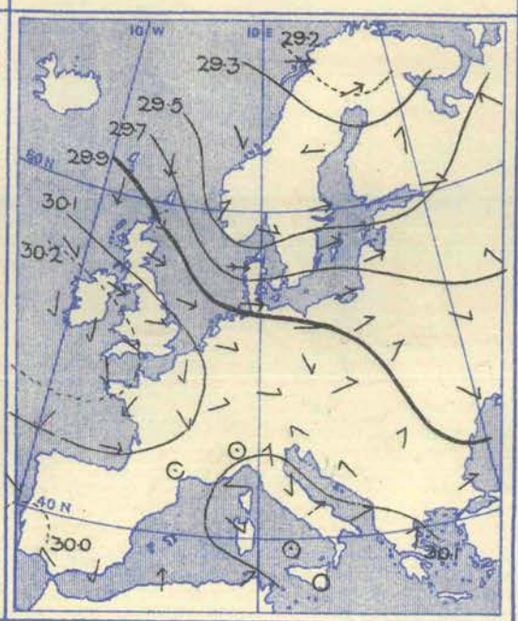
Temperature and Weather. 8 a.m.



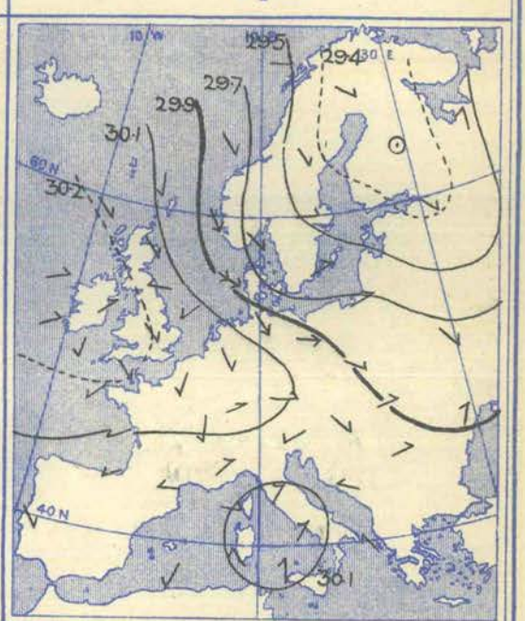
Weather at 8 a.m. fine and bright in most parts of southern Europe, France, and the United Kingdom; cloudy or dull over our area generally. Rain falling in the Shetlands, the north-west of Norway, at Fanö, and in several parts of central Europe. Continuing fine in most southern regions, but rain experienced during day in Scandinavia, Russia, and central Europe, and thunderstorms in the south and south-west of France.

Temperature fallen generally, but risen in south-eastern Europe Morning values highest, 82° at La Calle, 75° at Barcelona, 71° at Patras, 70° at Trieste and Pesaro, and 67° at Hermanstadt. Lowest, 39° at Bodö, 42° at Sumburgh Head, and below 50° at most stations north of the 53rd degree of latitude. Maxima during day very little above 60° in any part of the United Kingdom, but thermometer rising to between 70° and 80° in most of the southern localities. Highest values, 82° at Gap and Pesaro, and 86° at Lyons.

Barometer and Wind. 8 a.m.



6 p.m.

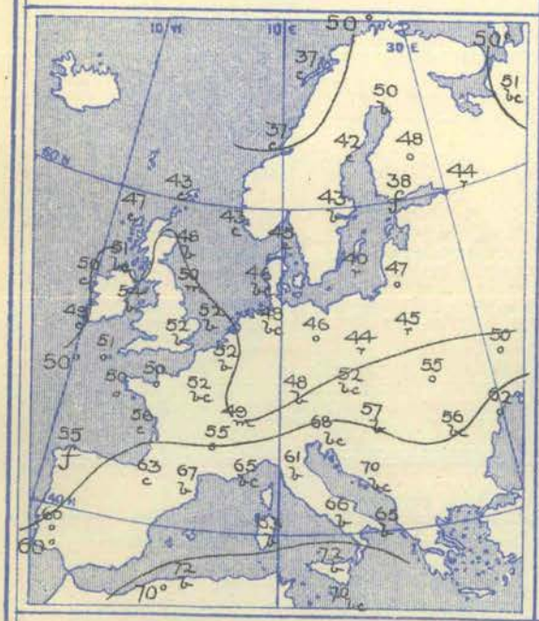


Wind in morning Northerly and Westerly over the United Kingdom, Westerly over Denmark, Germany, and the Baltic, South-Westerly or Southerly over Finland. Light in the last named country, but fresh or strong in the other regions—a gale prevailing at Fanö. Light and anticyclonic over southern Europe. Wind decreasing in force over our Islands during day but gale setting in on the south-west coast of Norway, and that at Fanö increasing in strength.

Barometer at 8 a.m. ranging from above 30·2 ins. in an anticyclone extending from the Atlantic to our south-western districts and from above 30·1 ins. over Italy and its vicinity to about 29·3 ins. in a secondary minimum over the south-west of Norway, and to less than 29·2 ins. in a large disturbance over Lapland. Western anticyclone continuing to move eastwards over our Islands during day but a brisk fall of the mercury commencing in the south-west of France. Depressions in the far north travelling east-south-eastwards and becoming less deep.

Friday, 20th May, 1904.

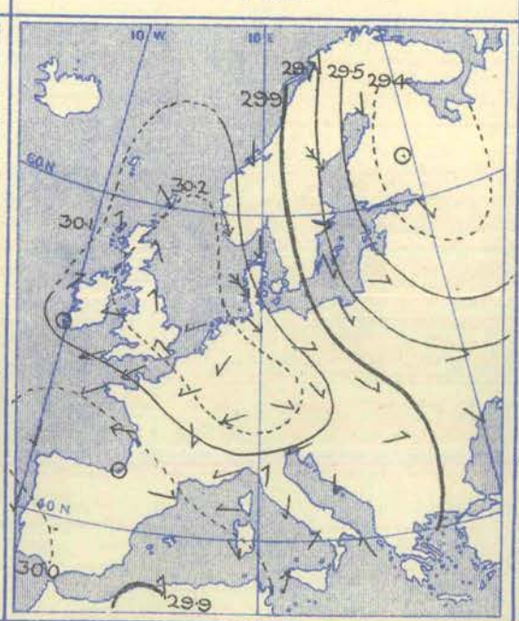
Temperature and Weather. 8 a.m.



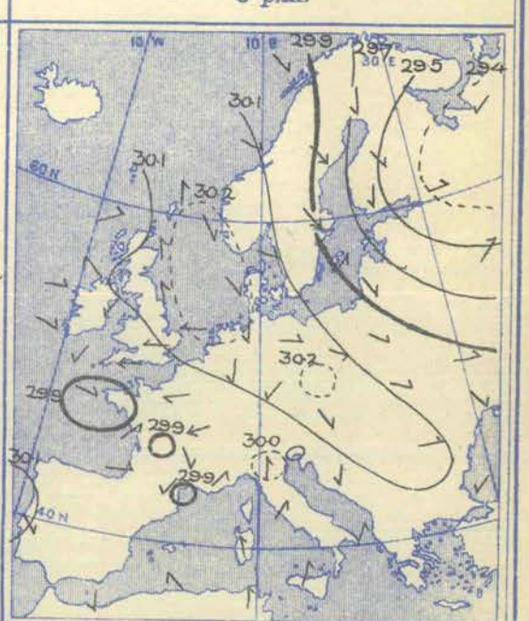
Weather at 8 a.m. fine and bright in the United Kingdom, the Netherlands, Denmark, and Italy; cloudy or overcast in nearly all other regions, with rain at St. Petersburg, Wisby, Warsaw, and the east of Prussia. Rain falling later in the south and south-west of our Islands, most parts of France, and in Russia—largest amounts 0·4 in. and 0·5 in. respectively in London and at Oxford, 1·0 in. at Le Mans and Limoges, and 2·2 ins. at Kharkov. Thunderstorms occurring in the south of France and at Jersey.

Temperature fallen except over our Islands. Morning readings ranging from 72° at Palermo and Algiers, and about 70° on the shores of the Adriatic to 50° or below at our own northern and eastern stations and over central and northern Europe, to 40° at Wisby, 38° at Hango, and 37° on the north-west coast of Norway. Rising to 64° in London during day and at many German stations to 65° at Manchester, to between 70° and 80° over France, Italy, and in the south generally, to 83° at Constantinople and Gap, to 86° at Algiers, and to 95° at Tunis.

Barometer and Wind. 8 a.m.



6 p.m.

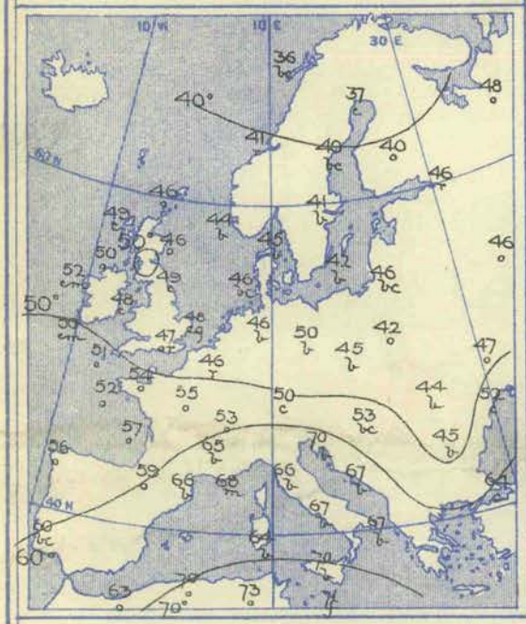


Wind at 8 a.m. showing two main circulations—one cyclonic over northern Europe, and the other anticyclonic over our Islands, the Netherlands, and central Europe. Northerly current strong to a gale in Norway, Sweden, and Denmark, and easterly winds fresh over our south-western coasts. Northerly winds decreasing in force later over northern Europe, but the easterly current increasing to a fresh or strong breeze on our south-east and south coasts. A separate cyclonic circulation setting in around Brittany.

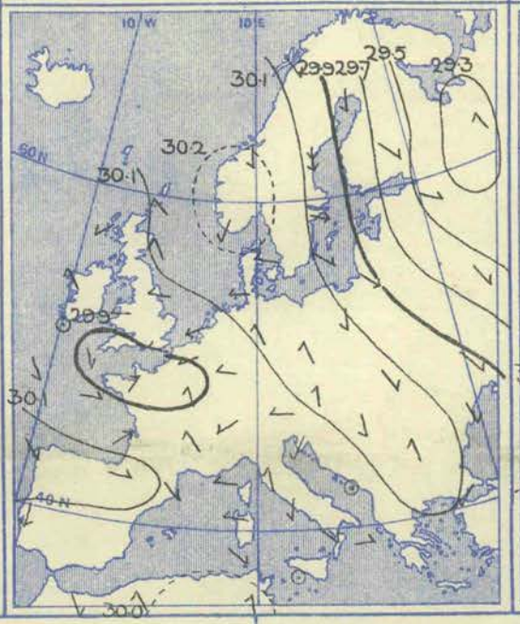
Barometer falling decidedly in the west and south-west of France. Readings at 8 a.m. highest, above 30·2 ins., in a large anticyclone extending from off the west of Norway across the greater part of Britain and the Netherlands to Bavaria. Lowest, less than 29·4 ins., in a depression over Finland and the north of Russia. Latter system travelling eastwards later, but other minima forming over the west and south of France. Anticyclone maintaining its position.

Saturday, 21st May, 1904.

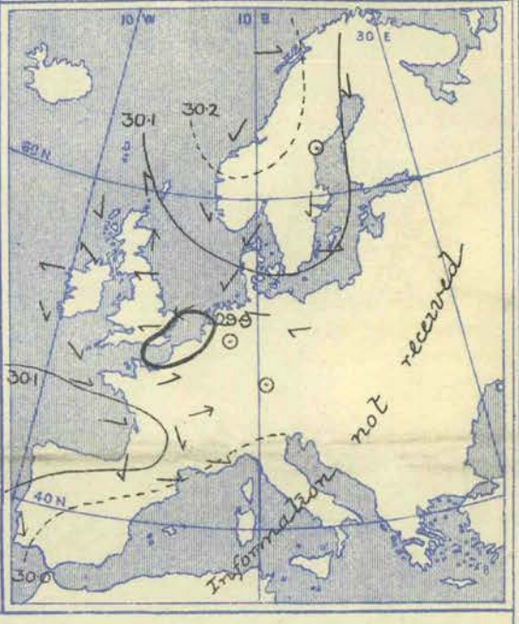
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. mostly fine and bright in Italy, the south of France, Germany, Denmark, and Sweden; cloudy or dull elsewhere, with rain over the south of England, at Cape Gris Nez, and Brussels, and also at Christiansund and St. Petersburg. Rain falling later over our western, north-western, and southern districts, the Netherlands, and in a few parts of France and Germany; a thunderstorm occurring at Lyons.

Temperature fallen generally. Readings at 8 a.m. much below the normal over our Islands and their vicinity. Highest, 75° at Barcelona, 73° at La Calle, 70° Trieste, and but little below 70° at any of the southern stations. Lowest, 40° or less in the north of Scandinavia and Finland, 42° at Warsaw, 45° at Breslau and Hermanstadt, below 50° in the Netherlands and the major part of our Islands, and 50° at Munich. Rising later to 83° at Lyons, 79° at Nice and Perpignan, and to above 60° over most parts of Germany. Maximum only 52° in London, and below 50° at some of our stations, but 59° at Leith and Stornoway.

Wind at 8 a.m. circulating cyclonically over our southern counties and the north of France, the Easterly current blowing freshly or strongly on the east coast of England. North-Westerly or Northerly winds prevailing over Finland and its neighbourhood, and a Northerly gale at Hernösand. Light and variable or anticyclonic elsewhere. Little change during day over the western half of our area.

Barometer at 8 a.m. highest, 30·1 ins. to 30·2 ins. and upwards in a high pressure band containing three distinct maxima, extending from the north of Norway to Greece, and above 30·1 ins. over the north of Spain. Lowest, less than 29·3 ins. in a depression over northern Russia, and below 29·9 ins. in another system centred over the English Channel. Last mentioned disturbance moving east-north-eastwards later, and barometer rising again on our south-west coasts and in France.

IV.—GENERAL NOTES, etc.

At the commencement of the week an anticyclone extended from the Bay of Biscay across central Europe to central Russia, while a primary and secondary depression were shown in the far north. Similar conditions, with a gradual decrease in the dimensions of the anticyclone and the arrival of other depressions from the Atlantic, continued for some days, accompanied by moderate or fresh winds between south-west and north-west over the northern counties, and by an occasional gale on the eastern shores of the North Sea, while in the central and southern regions the wind was mostly light and variable. By Wednesday the highest pressure was situated over the western part of the Mediterranean, while another high pressure system had begun to show itself in the west. This latter subsequently moved over the United Kingdom, France, Germany and the North Sea to Scandinavia, and at the end of the week formed a long anticyclonic band extending from the north of Norway to Greece. Its disappearance from the western countries was followed by the formation of a shallow depression over the lower part of the Bay of Biscay; this disturbance moved northwards during Friday, its centre reaching the English Channel by Saturday morning, and afterwards east-north-eastwards to our south-eastern counties. With this change in the distribution of pressure the wind shifted to the eastward over the United Kingdom and at first blew freshly or strongly in the east and south. Temperature was high during the earlier part of the period, especially over France; at Biarritz, on Monday, the thermometer rose to the very high level of 99°. Later in the week the weather became much cooler generally, and in the United Kingdom and the adjacent portions of the Continent the temperature was several degrees below the mean. Very little rain was experienced as a whole, but a few thunderstorms gave large quantities locally in France, while in the most northern and north-western regions slight rain was rather frequent.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 116.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	46·3	+ 5·3	39	+ 5
STRATHPEFFER SPA	43·8	+ 9·2	42	+ 8
EDINBURGH	34·1	+ 15·9	48	+ 14
COCKLE PARK	64·3	—	57	—
NEWCASTLE-ON-TYNE	52·3	—	46	—
YORK	57·0	+ 15·4	51	+ 14
SKEGNESS	62·8	—	57	—
CROMER	66·8	—	60	—
LOWESTOFT	68·2	—	62	—
DUNMOW	67·3	—	61	—
SHEFFIELD	56·5	—	51	—
WORKSOP	59·4	+ 20·1	54	+ 18
THURCASTON	68·2	+ 21·7	57	+ 20
MARGATE	61·6	+ 17·3	57	+ 16
BROADSTAIRS	—	—	—	—
RAMSGATE	65·9	—	61	—
EASTBOURNE	64·7	+ 13·4	60	+ 12
BRIGHTON	60·5	+ 10·7	56	+ 10
WORTHING	59·0	—	55	—
BOGNOR	57·7†	—	53†	—
WESTBOURNE	59·4†	+ 8·0	55†	+ 7
VENTNOR HOSPITAL	53·9	+ 2·5	50	+ 2
BOURNEMOUTH	56·7	—	53	—
MARLBOROUGH	55·5	+ 12·9	51	+ 12
SOUTHPORT	56·2	—	50	—
RHYL	63·9	—	58	—
ABERDOVEY	60·1†	—	55†	—
TENBY	57·3	+ 6·6	53	+ 6
TORQUAY	57·1	+ 6·4	53	+ 6
NEWQUAY	47·5	- 2·2	44	- 2
GUERNSEY	53·0†	- 5·9	50†	- 6

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values below must be substituted for those which have already appeared.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Twenty Seventh Year No. 7, p. 38	Shaftesbury	—	—	—	31·6	—	—	—	—	—	—	—	—	—	—	—
,, ,, ,, No. 8, p. 44	Scarborough	—	—	—	33·4	—	—	—	—	—	0·12	- 0·32	0·6	—	1	—
,, ,, ,, ,,	Hillington	—	—	—	33·3	37·6	- 1·9	—	31	—	—	—	—	—	—	—
,, ,, ,, ,, ,,	Stonyhurst	—	—	—	—	—	—	—	—	3	0·65	- 0·17	—	—	—	—
,, ,, ,, No. 3, p. 18	York	—	—	—	—	—	—	—	—	—	—	—	12·8	+ 5·2	23	+ 9

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 21. TWENTY-FIRST WEEK, ENDING SATURDAY, MAY 28TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 122.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	70	32	57·4	42·0	49·2	0 (average)	50	− 3	0	− 4	324*	− 72	477	− 66
	1. SCOTLAND, EAST	67	32	57·5	42·7	49·7	0 (average)	54	−10	0	− 3	391	−106	585	− 4
	2. ENGLAND, N.E.	72	40	59·6	47·3	53·1	2 above	78	+15	0	− 2	501	0	431	− 58
	3. ENGLAND, EAST	75	39	61·9	49·4	55·3	3 above	93	+12	0	− 1	573	− 64	404	−130
	4. MIDLAND COUNTIES	70	40	61·2	48·6	54·6	2 above	88	+ 7	0	− 2	546	−119	474	− 71
	5. ENGLAND, SOUTH	78	43	62·5	50·1	55·9	3 above	97	+ 9	0	0	610	−109	345	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	70	34	58·0	44·1	50·7	0 (average)	61	− 9	0	− 1	424	−117	375	− 41
	7. ENGLAND, N.W.	72	40	59·1	46·9	52·6	0 (average)	74	− 1	0	− 1	461	−111	386	− 12
	8. ENGLAND, S.W.	68	38	59·9	48·6	53·9	1 above	83	+ 2	0	0	640	− 67	252	− 53
	9. IRELAND, NORTH	71	35	58·2	43·9	50·6	1 below	60	−12	0	− 1	466	−157	337	− 19
	10. IRELAND SOUTH	68	37	60·1	45·8	52·5	0 (average)	74	− 7	0	0	645	−121	232	− 24
	— CHANNEL ISLANDS	70	48	60·4	51·0	55·4	1 above	94	+ 5	0	0	324	− 25	80	− 41

Rainfall.

	DISTRICTS. (See p. 122.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	5	1 less	105*	+15	23·1*	+ 4·6
	1. SCOTLAND, EAST	4	6	1 more	91	+15	11·9	+ 1·1
	2. ENGLAND, N.E.	5	9	5 more	81	+ 9	8·6	+ 0·2
	3. ENGLAND, EAST	4	4	0 (average)	77	+ 4	8·4	+ 0·3
	4. MIDLAND COUNTIES	5	10	5 more	89	+21	10·9	+ 1·5
	5. ENGLAND, SOUTH	4	8	4 more	87	+19	12·5	+ 2·6
Principal Grazing Districts.	6. SCOTLAND, WEST	5	8	2 more	95	+17	21·5	+ 3·3
	7. ENGLAND, N.W.	5	9	4 more	89	+16	13·3	+ 2·0
	8. ENGLAND, S.W.	5	12	7 more	91	+15	16·8	+ 3·1
	9. IRELAND, NORTH	4	4	1 less	107	+18	15·0	+ 2·4
	10. IRELAND, SOUTH	3	4	2 less	101	+20	17·4	+ 2·2
	— CHANNEL ISLANDS	5	11	7 more	102	+22	16·8	+ 5·1

Bright Sunshine.

	DISTRICTS. (See p. 122.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	36	− 3	30	− 3	414	− 58	24	− 3
	1. SCOTLAND, EAST	19	−22	16	−19	445	− 74	26	− 4
	2. ENGLAND, N.E.	11	−33	10	−29	473	− 85	27	− 5
	3. ENGLAND, EAST	18	−35	16	−31	521	− 97	30	− 6
	4. MIDLAND COUNTIES	7	−36	6	− 32	437	− 86	25	− 5
	5. ENGLAND, SOUTH	20	−28	18	−25	505	− 87	29	− 5
Principal Grazing Districts.	6. SCOTLAND, WEST	11	−32	10	−28	422	−108	24	− 6
	7. ENGLAND, N.W.	13	−31	11	−27	451	− 61	26	− 4
	8. ENGLAND, S.W.	22	−27	20	−25	491	−137	28	− 8
	9. IRELAND, NORTH	34	− 8	30	− 7	441	− 85	26	− 5
	10. IRELAND, SOUTH	38	− 8	34	− 7	479	−112	28	− 7
	— CHANNEL ISLANDS	33	−24	30	−22	600	−116	35	− 7

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was very varied, but taken as a whole it was unusually dull for the time of year. Rain fell on many occasions, and thunderstorms were rather frequent over Great Britain during the latter half of the week.

Temperature was above the mean in almost all parts of England and the Channel Islands, as much as 3° and 4° respectively in England S., but just equal to the normal or slightly below it in Ireland and Scotland. The highest of the maxima were registered on Thursday over the Kingdom generally, and ranged from 78° in England S. and 75° in England E., to 68° in England S.W. and Ireland S., and to 67° in Scotland E. The lowest of the minima occurred on the 22nd at most English stations, but on the 25th over Ireland and Scotland. They ranged from 32° in Scotland N. and E., 34° in Scotland W., and 35° in Ireland N., to 43° in England S., and to 48° in the Channel Islands.

Rainfall was less than the mean in Scotland N. and over Ireland, and only equal to it in England E., but elsewhere it was more; in most parts of England the fall was almost twice as large as the normal, while in the Channel Islands it was nearly three times as large.

Bright Sunshine was less than the mean in all districts, the deficiency in most parts of Great Britain being very striking. The percentage of the possible duration ranged from 34 in Ireland S., and 30 in Ireland N., the Channel Islands, and Scotland N., to 10 in England N.E. and Scotland W., and to no more than 6 in the Midland Counties.

Barometer and Wind. Cyclonic disturbances of little depth reached these Islands from the westward and southward. Their rate of movement was generally slow, and the track they pursued somewhat unusual. A system which reached Scotland from the Atlantic on Tuesday morning had apparently disappeared in a north-westerly direction by Wednesday. The wind, which was never very strong in force in any part of the Kingdom, was mainly between South-East and South-West in direction, but towards the close of the week it shifted to the Northward or North-Eastward for a time over the major portion of the Kingdom, and finally became Easterly in the north and Westerly in the south.

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II.—DATA from which the SUMMARY on page 121 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean* for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	53	37	50·0	42·1	45·8	− 0·4	27	0	3	0·64	+ 0·22	*	*	*	*
	Stornoway	65	40	54·9	42·4	48·3	0·0	44	0	4	0·21	− 0·34	47·2	+ 4·0	39	+ 3
	Wick	62	38	55·3	41·7	48·1	− 0·3	44	1	3	0·65	+ 0·25	*	*	*	*
	Lairg Ⓢ	66	32	64·8	42·2	52·8	+ 4·6	76	0	3	0·59	+ 0·10	*	*	*	*
	Glencarron Ⓢ	65	36	57·9	41·0	48·9	− 0·4	53	3	4	0·31	− 0·75	*	*	*	*
	Fort Augustus Ⓢ	67	34	58·4	41·4	49·4	− 1·1	54	2	4	0·61	+ 0·14	29·6	− 1·1	25	− 1
	Fort William	70	38	60·3	43·1	51·2	+ 0·2	64	0	4	0·79	− 0·01	36·3	− 4·4	31	− 4
1. SCOTLAND, E.	Nairn	62	34	58·9	40·7	49·3	− 1·1	57	4	3	0·52	+ 0·15	*	*	*	*
	Aberdeen	59	42	55·0	44·9	49·7	+ 0·1	54	0	4	0·28	− 0·16	20·6	− 23·2	18	− 20
	Braemar Ⓢ	62	32	55·9	39·0	46·9	− 0·3	47	8	3	0·24	− 0·26	*	*	*	*
	Ochtertyre Ⓢ	65	34	59·4	42·1	50·2	− 0·9	57	0	6	0·68	+ 0·13	*	*	*	*
	Leith	67	40	58·4	45·3	51·5	+ 0·2	67	0	6	1·17	+ 0·78	*	*	*	*
	Marchmont Ⓢ	67	40	57·6	44·3	50·6	+ 1·4	60	0	3	0·70	+ 0·15	18·2	− 23·9	16	− 21
2. ENGLAND, N.E.	Alnwick Castle	68	41	59·7	45·7	52·3	+ 3·0	72	0	5	1·37	+ 0·92	*	*	*	*
	Durham	68	40	57·4	44·3	50·5	+ 0·2	60	0	5	1·40	+ 0·96	8·8	− 30·6	8	− 27
	Shields	64	45	58·3	47·4	52·5	+ 2·6	74	0	6	1·32	+ 0·95	*	*	*	*
	Scarborough Ⓜ	65	43	58·8	47·0	52·6	+ 1·8	74	0	5	0·79	+ 0·35	13·6	—	12	—
	Spurn Head	62	45	58·4	49·6	53·7	+ 2·6	82	0	3	0·23	− 0·13	*	*	*	*
	Lincoln	70	40	62·7	47·9	54·9	+ 2·1	90	0	5	0·45	+ 0·02	*	*	*	*
	Fulbeck (Lincolnshire)	72	42	62·2	49·3	55·4	+ 2·8	94	0	6	0·53	+ 0·10	9·1	—	8	—
3. ENGLAND, E.	Hillington Ⓜ	75	39	64·2	47·1	55·1	+ 2·7	92	0	4	0·31	− 0·12	13·4	− 33·9	12	− 30
	Yarmouth	61	44	56·7	49·9	53·1	+ 1·7	78	0	4	0·71	+ 0·30	*	*	*	*
	Geldeston	72	43	63·0	48·7	55·4	+ 3·3	94	0	4	0·40	0·00	14·3	− 36·0	13	− 32
	Cambridge	74	40	65·1	47·3	55·7	+ 2·3	96	0	5	0·25	− 0·18	7·6	− 38·6	7	− 35
	Felixstowe	69	47	60·0	50·9	55·2	+ 4·0	92	0	4	0·58	—	29·8†	—	27†	—
	Clacton-on-Sea	66	47	60·3	51·7	55·7	+ 4·6	96	0	4	0·35	—	37·8†	—	34†	—
	Rothamsted	70	44	63·3	48·7	55·6	+ 3·3	95	0	4	0·33	− 0·13	12·5	− 32·2	11	− 29
	Shoeburyness	69	46	62·6	51·1	56·5	+ 5·2	102	0	3	0·38	+ 0·07	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	69	40	58·8	46·5	52·3	+ 2·3	72	0	6	1·45	+ 0·98	4·7	—	4	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	70	43	62·4	49·3	55·5	+ 2·9	95	0	5	0·48	0·00	6·3	—	6	—
	Colly Weston (Stamford)	70	43	63·3	48·4	55·4	+ 2·3	94	0	5	0·60	+ 0·15	*	*	*	*
	Cheadle Ⓜ	70	41	59·7	49·6	54·4	+ 3·6	87	0	5	0·75	+ 0·20	*	*	*	*
	Birmingham (Edgbaston)	70	43	60·9	49·1	54·7	+ 2·7	89	0	5	0·81	+ 0·27	10·8	—	10	—
	Shrewsbury	70	43	62·4	48·8	55·2	+ 2·4	92	0	6	0·93	—	*	*	*	*
	Hereford Ⓜ	68	42	61·7	48·7	54·8	+ 1·4	90	0	5	0·50	+ 0·03	*	*	*	*
	Cirencester	66	40	60·3	47·4	53·5	+ 1·4	81	0	6	1·39	+ 0·89	9·4	− 37·3	9	− 34
	Oxford	67	45	61·7	49·9	55·5	+ 2·0	95	0	4	2·01	+ 1·59	7·6	− 37·4	7	− 34
5. ENGLAND, S.	London	78	47	66·0	52·1	58·6	+ 3·7	116	0	3	0·33	− 0·06	10·2‡	− 31·6‡	9‡	− 29‡
	Wisley	73	45	64·6	50·6	57·2	+ 2·3	106	0	4	0·90	—	14·0	—	13	—
	Swarraton (Alresford) Ⓜ	68	43	62·6	49·0	55·4	+ 3·5	94	0	5	1·94	+ 1·50	*	*	*	*
	Tunbridge Wells Ⓜ	77	46	66·1	49·8	57·5	+ 5·0	109	0	5	0·16	—	18·6	—	17	—
	Dungeness	67	47	61·3	49·6	55·1	+ 1·9	92	0	3	0·07	− 0·33	26·9	—	24	—
	Hastings (St. Leonards)	74	47	62·5	50·2	56·0	+ 2·8	98	0	5	0·11	− 0·25	23·1	− 30·5	21	− 28
	Southampton	69	47	63·2	50·9	56·7	+ 1·9	103	0	5	1·49	+ 1·07	17·5	− 32·1	16	− 29
	Portland Bill	58	47	56·1	49·4	52·6	− 0·3	74	0	5	0·71	—	*	*	*	*
	Shaftesbury Ⓜ	65	44	60·1	49·1	54·3	+ 2·2	86	0	5	1·54	+ 1·07	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	66	34	59·6	42·9	50·8	− 0·6	62	0	4	1·15	+ 0·29	*	*	*	*
	Glasgow	63	40	56·4	44·6	50·2	− 1·0	57	0	4	0·75	+ 0·18	16·3	− 21·7	14	− 19
	Cally Ⓢ	67	39	60·3	43·4	51·3	+ 0·3	65	0	6	0·90	+ 0·24	*	*	*	*
	Aspatria	70	41	58·0	45·1	51·2	+ 0·4	64	0	4	0·58	—	7·0	—	6	—
	Douglas (Isle of Man)	61	41	55·5	44·7	49·8	− 1·3	55	0	5	0·65	+ 0·15	9·6	− 42·1	8	− 37
7. ENGLAND, N.W.	Newton Rigg	68	40	56·8	44·2	50·1	+ 0·3	57	0	4	0·47	—	13·2	—	12	—
	Stonyhurst	68	42	58·3	47·6	52·6	+ 0·9	74	0	5	0·87	+ 0·23	10·7	− 33·9	9	− 30
	Blackpool Ⓜ	71	42	60·1	45·1	52·2	0·0	71	0	5	0·71	+ 0·25	17·0	− 28·4	15	− 25
	Manchester (Prestwich)	72	41	60·6	48·6	54·2	+ 2·5	85	0	5	1·53	+ 0·96	6·6	—	6	—
	Liverpool Obsy. (Bidston)	71	44	60·4	48·4	54·0	+ 1·0	84	0	5	0·95	+ 0·52	10·3	—	9	—
	Chester (Hawarden Bridge)	72	40	60·6	48·3	54·1	+ 0·2	85	0	4	0·79	—	*	*	*	*
	Llandudno Ⓜ	72	44	59·6	47·9	53·4	+ 0·5	80	0	6	0·81	+ 0·39	16·6	− 29·7	15	− 26
	Holyhead	61	45	55·4	47·1	51·0	− 1·4	63	0	4	0·56	+ 0·14	*	*	*	*
	Bettws-y-Coed	71	40	59·9	45·3	52·2	0·0	71	0	5	1·09	—	11·5	—	10	—
8. ENGLAND, S.W.	Pembroke	57	45	55·0	47·9	51·2	− 0·6	64	0	7	1·20	+ 0·76	14·3	− 38·1	13	− 34
	Clifton	67	46	61·7	50·5	55·8	+ 2·6	97	0	5	0·97	+ 0·45	*	*	*	*
	Bath	68	45	62·7	50·1	56·0	+ 2·2	98	0	4	0·75	+ 0·28	14·3	—	13	—
	Arlington (N. Devon)	64	38	59·1	46·3	52·3	+ 0·5	72	0	5	1·72	+ 1·07	*	*	*	*
	Cullompton Ⓜ	68	40	63·2	47·7	55·0	+ 1·4	91	0	5	1·06	+ 0·59	23·6	− 22·4	22	− 20
	Falmouth	64	43	58·9	49·5	53·9	+ 0·6	83	0	4	1·02	+ 0·46	28·7	− 24·9	26	− 23
	Plymouth	65	39	59·0	48·5	53·4	− 1·2	80	0	4	1·59	+ 1·15	26·9	− 23·1	25	− 21
9. IRELAND, N.	Malin Head	61	39	55·7	43·1	49·0	− 2·0	49	0	4	0·21	− 0·29	*	*	*	*
	Edenfel (Omagh)	71	36	60·6	41·7	50·6	− 0·3	61	1	4	0·41	− 0·14	*	*	*	*
	Blacksod Point	67	41	57·6	46·1	51·5	− 0·6	67	0	5	0·42	− 0·21	*	*	*	*
	Markree Castle	70	35	60·6	43·2	51·4	+ 0·5	66	0	3	0·25	− 0·35	36·6	− 5·7	32	− 5
	Armagh	67	41	60·4	44·5	52·0	+ 0·4	70	0	3	0·78	+ 0·28	31·8	− 10·0	28	− 9
	Donaghadee	57	39	54·4	44·7	49·3	− 2·1	51	0	4	0·49	− 0·01	*	*	*	*
10. IRELAND, S.	Dublin	66	44	61·0	47·7	54·0	+ 0·6	84	0	3	0·25	− 0·20	36·6	− 11·7	32	− 10
	Birr Castle	67	37	60·3	44·0	51·7	− 0·7	68	0	2	0·28	− 0·25	32·5	− 9·0	29	− 8
	Kilkenny	66	39	60·7	44·9	52·3	− 0·5	72	0	2	0·16	− 0·33	*	*	*	
	Waterford	63	40	61·9	45·4	53·2	+ 0·5	78	0	2	0·21	− 0·33	*	*	*	*
	Roche's Point	60	41	58·3	47·0	52·3	− 1·3	72	0	3	0·46	− 0·19	*	*	*	*
	Valencia	64	41	57·4	47·1	51·9	− 1·3	69	0	6	1·30	+ 0·60	45·4	− 2·0	41	− 2
	Killarney	64	38	60·7	46·0	52·9	0·0	76	0	3	0·38	− 0·29	*	*	*	*
	Foynes	68	39	60·5	44·0	51·8	− 0·6	69	0	1	0·30	− 0·23	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	60	49	58·1	50·4	54·0	+ 0·3	84	0	6	1·97	+ 1·60	32·1	− 23·2	29	− 21
	Jersey	70	48	62·6	51·6	56·8	+ 2·1	104	0	4	0·18	− 0·25	30·0	− 27·0	28	− 25

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

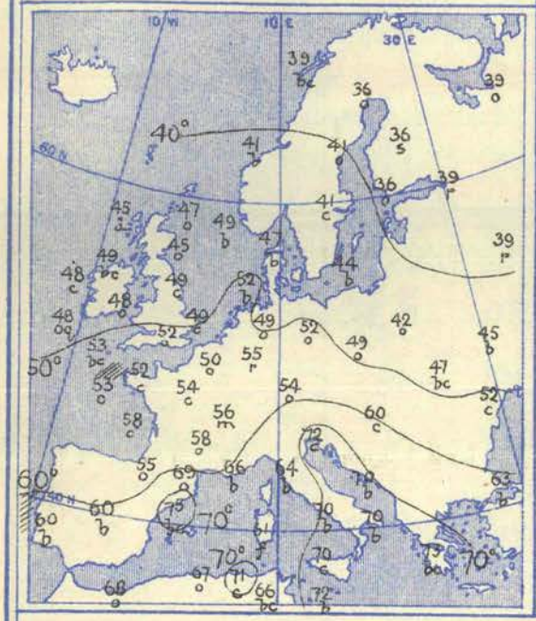
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

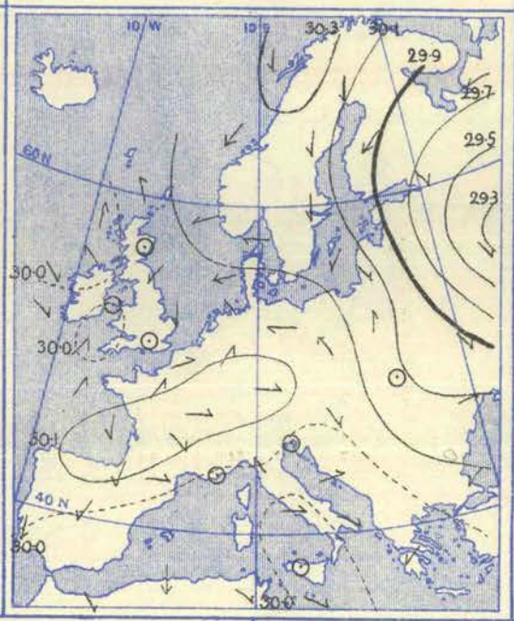
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 22nd May, 1904.

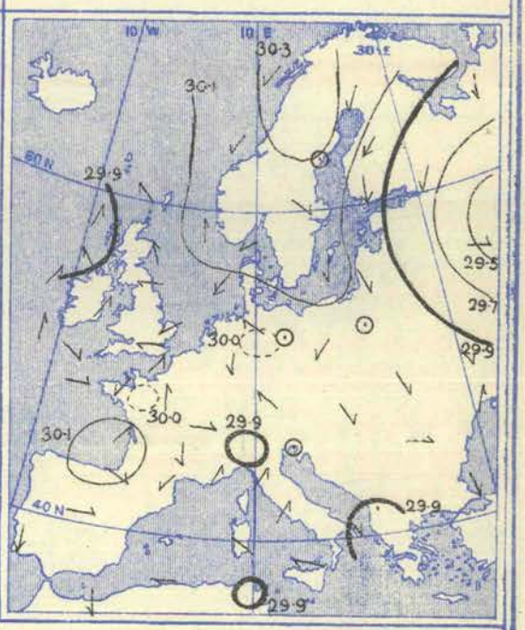
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in Norway, Denmark, and the most southern countries; cloudy or overcast elsewhere, with snow at Kuopio, rain at St. Petersburg, Moscow, and Frankfurt, and also at Liverpool and in the Hebrides. Rain experienced later in several parts of the United Kingdom and France, and a thunderstorm occurring at Lyons. Largest measurements, 0·6 in. at Besançon and Lyons.

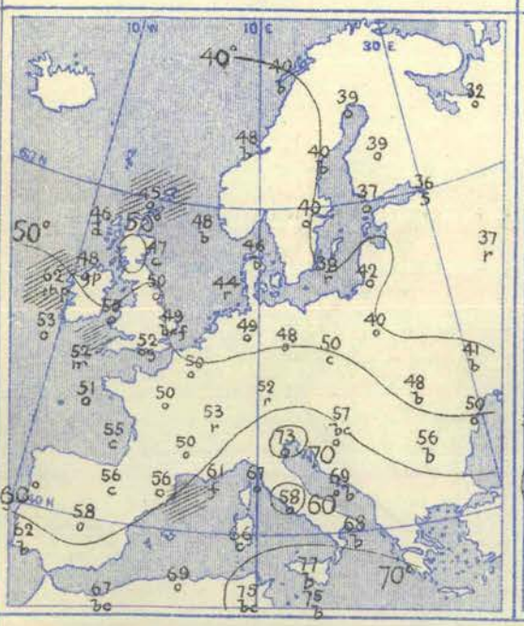
Temperature fallen in most places, but risen in central Europe. Morning readings, below 40° over Finland and the northern parts of Russia and Scandinavia, and less than 50° at nearly all our own stations and at a few in Germany, but above 60° over the south of Europe, and above 70° in places. Rising during day to nearly 80° in the south of France, to above that value in Italy, to 97° at Tunis, and to 102° at La Calle. Maxima below 60° at almost all our own stations, and below 50° in a few places.

Wind at 8 a.m. anticyclonic over Scandinavia and France, but mainly cyclonic elsewhere. Light or moderate in force generally, but strong from North-East at Christiansund and Fanö. No great change later as a whole, but wind increasing considerably from North over the Gulf of Finland.

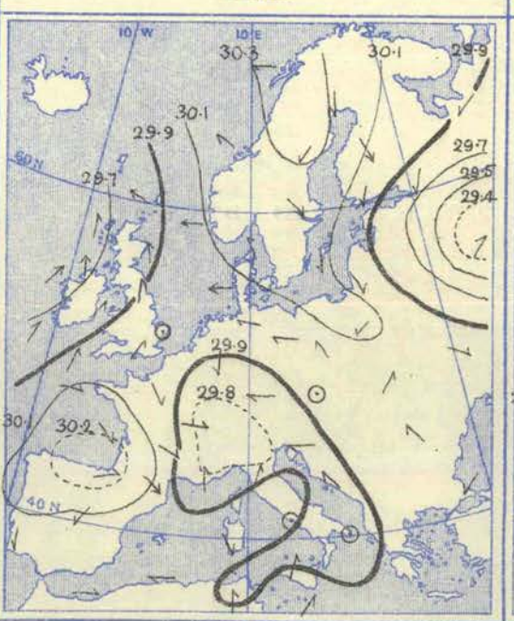
Barometer at 8 a.m. ranging from 30·3 ins. and upwards in an anticyclone centred over the north of Norway, and above 30·1 ins. in a feebler system extending from the Bay of Biscay to Bavaria, to less than 30·0 ins. in a very shallow depression over Wales, and in another off our north-west coasts, to about 29·9 ins. in a small minimum over Holland, and to below 29·3 ins. in a large disturbance over Russia. Some modification taking place later in the forms of the various baric minima, but little change shown in the general distribution of pressure.

Monday, 23rd May, 1904.

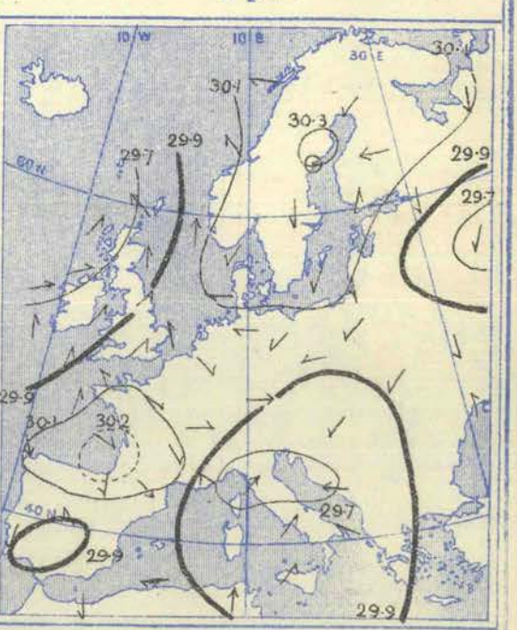
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright at many of the most southern and south-eastern stations and also in Norway, but cloudy or overcast over our area generally. Rain falling at Moscow, Nicolaieff, Wisby, in the west of Germany, and at Belfort, as well as at some of our own north-western stations. Snow reported from St. Petersburg. Rain falling during the day or at night throughout our Islands, in various parts of France, and the central countries. Largest amounts, 0·7 in. at Leith, 0·8 in. at Scilly and Besançon, 0·9 in. at Buda-Pesth, and 1·5 ins. at Munich.

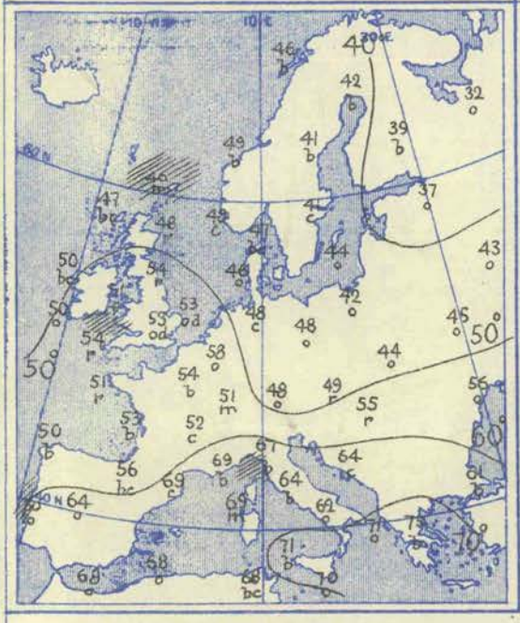
Temperature in morning highest, 77° at Palermo, 73° at Trieste, 69° at Algiers, 67° at Leghorn, and above 60° at most southern stations. Lowest, 32° at Archangel, below 40° over the major portion of Russia and Sweden, and 50° or below in several parts of Germany, France, and the United Kingdom. Rising during day to 65° at Scarborough, 66° in London, and to above 70° in the far south of Europe. Highest values, 82° in Greece, 86° at Madrid, 89° at Palermo, 95° at Tunis, and 97° at Sfax.

Wind at 8 a.m. anticyclonic over Scandinavia and the south-west of our area and mainly light or moderate in force. Partial or complete cyclonic circulations prevailing elsewhere. Southerly current strong on our extreme north-west coasts, and that from East blowing a gale at Fanö. Force decreasing on our coasts and at Fanö later, but increasing to a fresh or strong breeze in Italy and its vicinity.

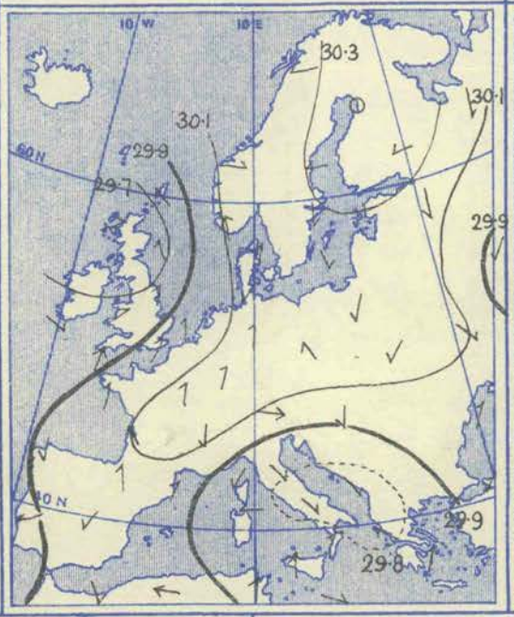
Barometer at 8 a.m. ranging from 30·3 ins. and upwards in an anticyclone centred over the north of Scandinavia, and above 30·2 ins. in a similar system over the southern part of the Bay of Biscay, to 29·9 ins. and less in a depression of very irregular form extending from the Mediterranean to Frankfurt, to below 29·7 ins. in a disturbance approaching our north-west coasts, and to less than 29·4 ins. over central Russia. Another depression appearing over Spain by evening, and north-western low pressure moving northwards.

Tuesday, 24th May, 1904.

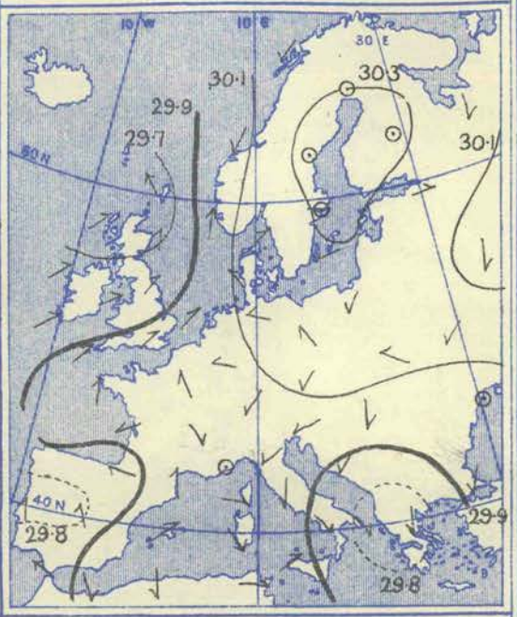
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull generally, with rain at Brest, in many parts of the United Kingdom, and at Buda-Pesth and Vienna. Fine and bright at most stations in Finland, Scandinavia, and France. Rain occurring later throughout Great Britain and in most parts of Ireland, as well as at a few German, French, and Spanish stations—as much as 0·6 in. at San Fernando.

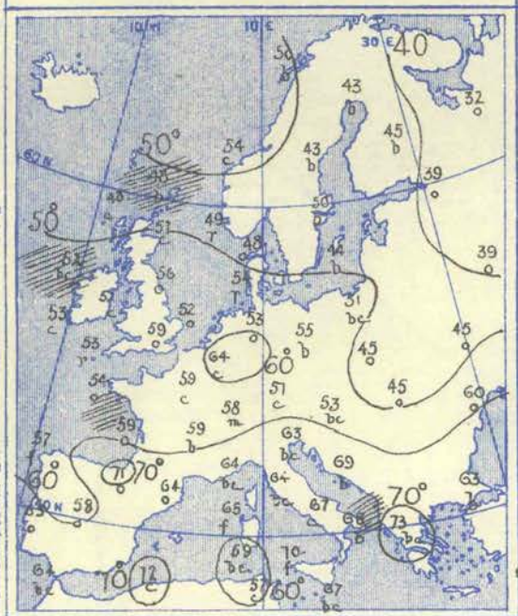
Temperature changed rather irregularly, but risen in most places. Morning readings ranging from 75° at Athens, 71° at Brindisi and Palermo, and 69° at Nice and Barcelona, to below 50° at most stations in the northern half of our area, and to below 40° in the north of Russia. Lowest reading, 32° at Archangel. Rising during day to 90° at Sfax, 86° at Bilbao, 84° at Cagliari and Madrid, and to only a few degrees lower at many southern stations. Highest maximum in our Islands, 65° at Liverpool.

Wind in morning light and anticyclonic over the greater part of our area, but cyclonic over our Islands and Italy and its neighbourhood. Light or moderate in force generally, but Southerly winds fresh or strong on our south-western coasts. No important change occurring during day.

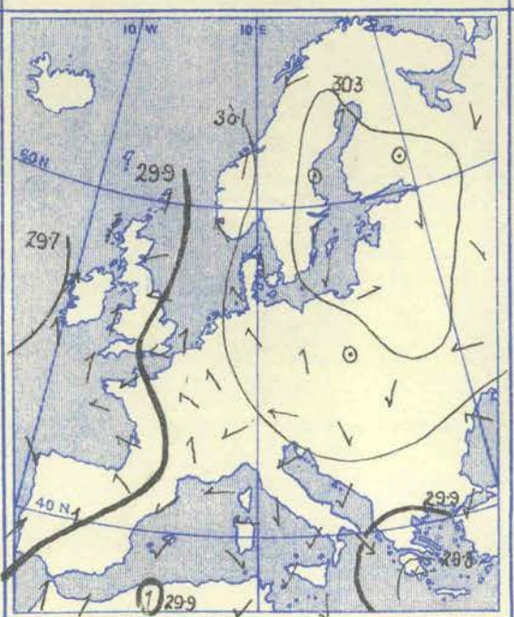
Barometer at 8 a.m. ranging from above 30·1 ins. to 30·3 ins. and upwards in a large area extending from the west of France, north-eastwards to Lapland, to less than 29·9 ins. over central Russia, below 29·8 ins. in a depression over Italy and the Adriatic, and to less than 29·7 ins. in a disturbance over Scotland and the north of Ireland. A depression forming over central Spain by evening, and barometer falling briskly in that region, and rather decidedly over the western departments of France.

Wednesday, 25th May, 1904.

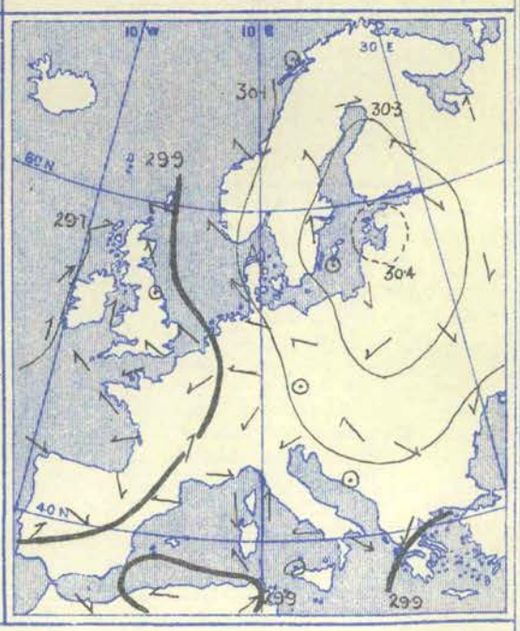
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in Sweden, Finland, at many stations in central and southern Europe, and on parts of our own most western and northern coasts; cloudy or dull elsewhere. Rainy in the south-west of England and Wales, and at Spurn Head, Skudesnaes, and Fanö, and foggy at Donaghadee and Corunna. Slight rain later in various parts of our Islands, and larger quantities in a few Continental and Algerian localities. Heaviest amounts, 1·2 ins. at Oxö and 1·3 ins. at Madrid. A thunderstorm experienced at Nemours.

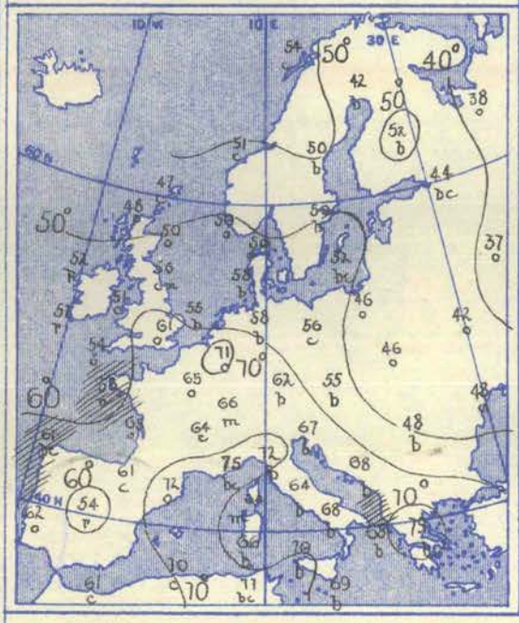
Temperature risen a few degrees generally. Readings in morning highest, 75° at Palma, 73° at Patras, 71° at Biarritz, and 70° at Barcelona and Palermo. Lowest, 32° at Archangel, 39° at Moscow and St. Petersburg, 50° or below in many parts of central Europe, Scandinavia, and at our own most northern and north-western stations, and 52° at Yarmouth. Rising later to 92° at Algiers, 90° at Aumale, 86° at Bordeaux, to about 80° in the south generally, and to above 75° in parts of Germany. Highest in the United Kingdom, 70° in London.

Wind at 8 a.m. showing a very extensive anticyclonic circulation of light or moderate breezes over the northern half of the North Sea. A strong Southerly breeze prevailing at Blacksod Point, and light Southerly airs in many parts of these Islands, but wind Easterly on our southern coasts and over France, and North-Westerly on the north coast of Spain. Light or moderate breezes between North-West and North-East prevalent over the Mediterranean. Little change during day.

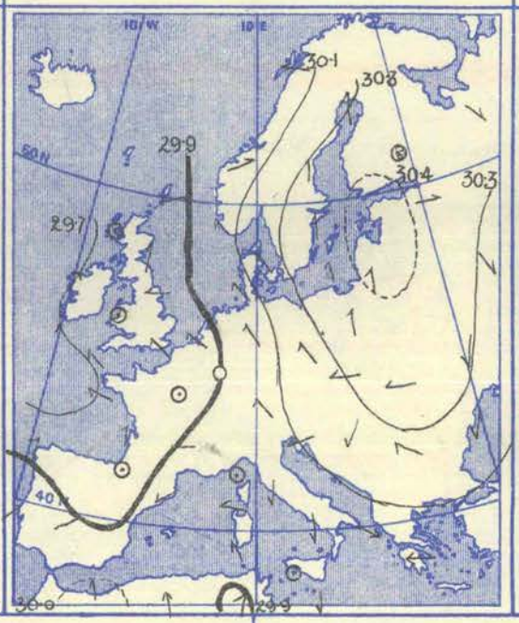
Barometer at 8 a.m. highest, 30·3 ins. and upwards in an anticyclone stretching northwards from Poland to Lapland. Lowest, less than 29·8 ins. (1) in a depression over Greece, (2) in another off our north-west coasts, and (3) in a third over the Bay of Biscay. Changes in pressure very slight and irregular during day, but mostly downward over the western countries and upwards in the east. A depression forming over Algeria by evening, and the isobars becoming more irregular over the United Kingdom and the Bay of Biscay.

Thursday, 26th May, 1904.

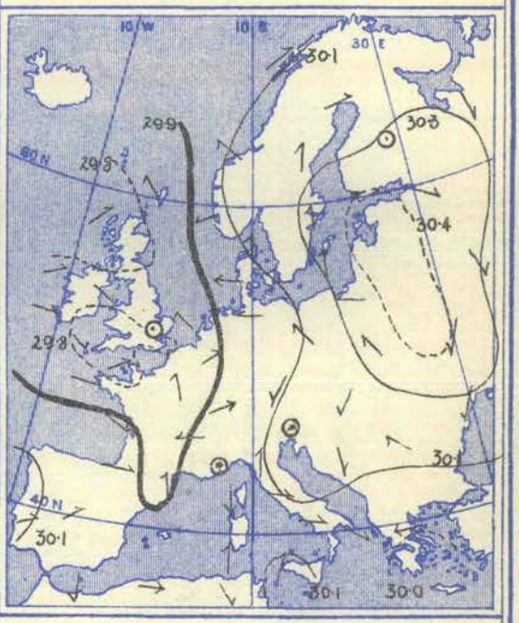
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright on the east coast of England, in Sweden, Finland, and most southern regions; dull or cloudy elsewhere, with rain at Madrid and on the west coast of Ireland. Thunderstorms later in several parts of Great Britain and France, but weather remaining dry over the major part of the Continent. Heaviest rainfall, 0·5 in. at Toulouse, Oxford, and Pembroke, and 0·8 in. at Scilly and Le Havre.

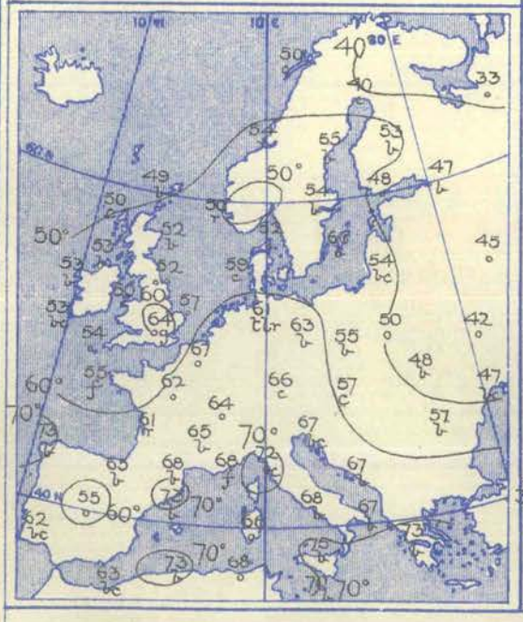
Temperature fallen over the Spanish Peninsula and its neighbourhood; risen generally. Morning readings highest, 79° at Patras, 77° at La Calle, 75° at Nice, 72° at Leghorn and Barcelona, 71° at Brussels, and 61° in London. Lowest, 37° at Moscow, 38° at Archangel, 42° at Warsaw, 47° at Wick, 48° at Hermanstadt, and 54° at Madrid. Rising during day to 73° at Manchester and Brighton, 78° in London, 82° at Paris, 86° at Brussels, Florence, and La Calle, and to 91° at Frankfurt. Maxima below 60° in many parts of Ireland and Scotland, and only 63° at Lisbon.

Wind in morning light and anticyclonic over the north-eastern and northern parts of our area, and light or moderate and mainly South-Easterly over the western countries. Variable over the Mediterranean and of little force generally, but moderate to strong from the Eastward in Greece. Increasing to a strong breeze from the Eastward by evening on the Danish coasts, but becoming very variable over our Islands.

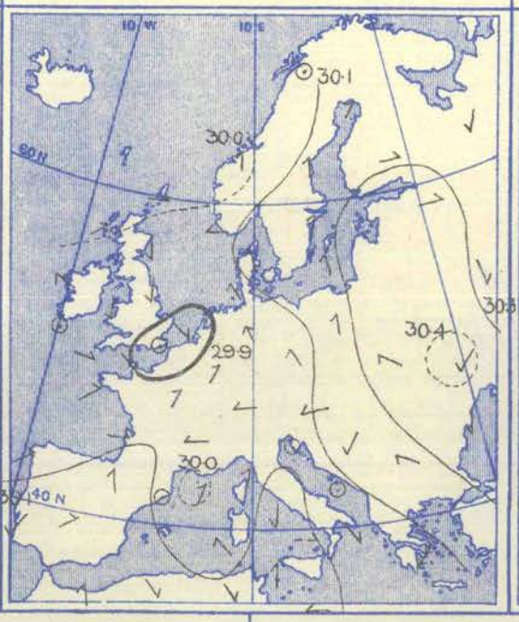
Barometer at 8 a.m. ranging from above 30·4 ins. in an anticyclone centred over the Gulf of Riga to less than 30·0 ins. in Greece, below 29·9 ins. in a small depression over eastern Algeria, and to below 29·7 ins. off our west and south-west coasts. Anticyclone extending southwards during day, and two large shallow depressions of irregular form appearing over the United Kingdom. Pressure increasing along our western coasts and in the west of France.

Friday, 27th May, 1904.

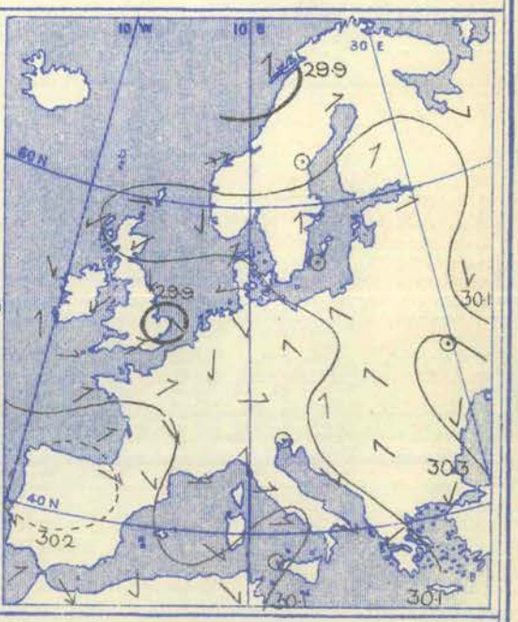
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in Ireland, Scotland, Algeria, most regions in the south of Europe, as well as over many parts of Germany, the Baltic, and Sweden; cloudy or overcast elsewhere with rain at Pembroke, Rochefort, and Aix-la-Chappelle, and a thunderstorm at the mouth of the Elbe. Thunderstorms during day over several parts of England and in the east of France. Heaviest rainfall, 0·9 in. at North Shields, 1·4 ins. at Oxford, and 3·6 ins. at Charleville.

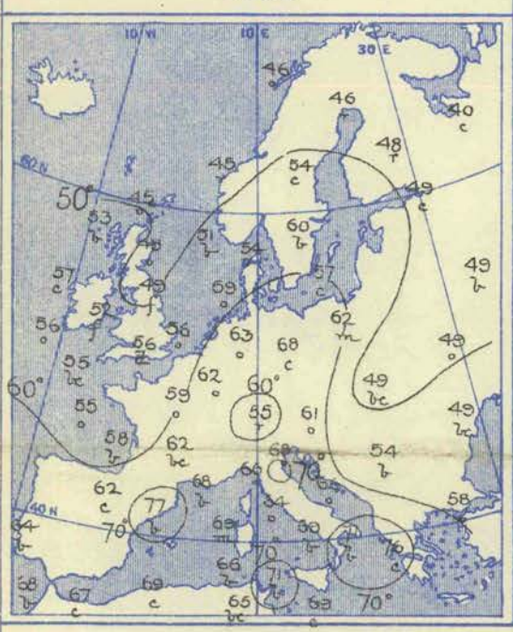
Temperature changed irregularly. Morning readings ranging from 73° at Patras, Algiers, Corunna, and Barcelona, 72° at Leghorn, and 70° at Frankfurt, to 64° in London, 60° at Wisby, 54° at Christiansund, 45° at Moscow, and to 33° at Archangel. Rising later to 70° at Margate, but only to 55° at North Shields and 53° at Holyhead. Maxima over central and southern Europe a little below or slightly above 80°—highest value, 86° at Florence. Thermometer rising to a maximum of 70° at Hernösand.

Wind at 8 a.m. showing a feeble cyclonic circulation around the south-east of England and a light anticyclonic movement over the eastern half of our area. Light variable winds prevailing over the Mediterranean and its neighbourhood generally; but a North-Easterly gale blowing at Athens. Little change later as a whole, but a fresh West-South-Westerly gale setting in at Christiansund.

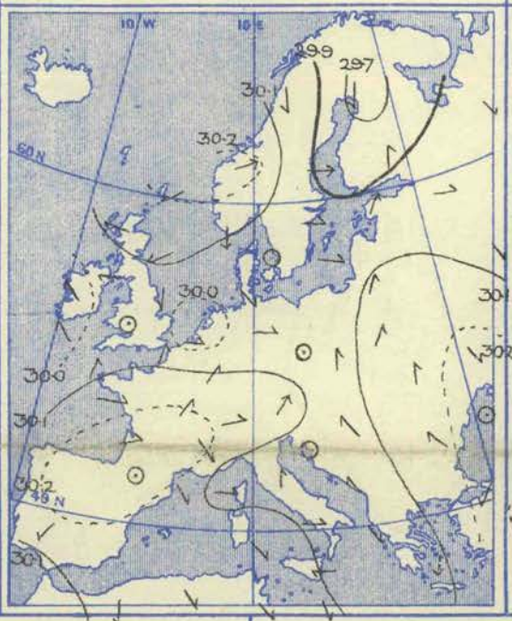
Barometer at 8 a.m. highest, 30·3 ins. to above 30·4 ins. in an anticyclone over the western half of Russia and its vicinity. Lowest, less than 29·9 ins. in a shallow depression over England and the Netherlands. Below 30·0 ins. off the north of Scotland and also in the south of Greece. Pressure falling briskly later over the north of Scandinavia, and rising rather decidedly over the Bay of Biscay and France. Russian anticyclone decreasing somewhat in intensity, and depression over our Islands and the Netherlands beginning to fill up.

Saturday, 28th May, 1904.

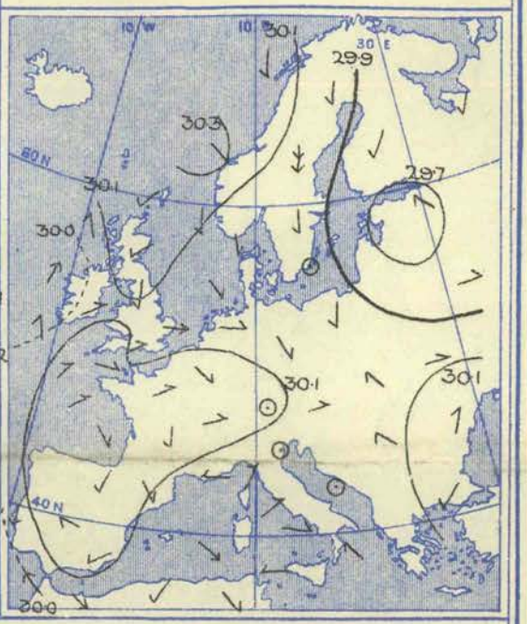
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull generally, but fine and bright in a few localities—chiefly in southern Europe. Rainy in Finland, at Christiansund, Skagen, and Munich, and rain, mist, or fog prevailing at several stations in Great Britain. Rain falling later at some Irish stations (0·69 in. at Valencia), slight amounts at a few English and German stations, and as much as 2·2 ins. at Prague, accompanied by thunder and lightning.

Temperature fallen as a whole, but risen in Germany, Denmark, and the southern parts of Scandinavia, and over Russia. Morning readings highest, 77° at Barcelona, 76° at Patras, 71° at Palermo, Brindisi, and Pesaro, 68° at Berlin, and 60° at Stockholm. Lowest, 46° at Archangel, 45° at Christiansund and Sumburgh Head, 50° at Pembroke, and 54° at Limoges and Hermanstadt. Rising during day to 65° in the Hebrides, 67° at Blacksod Point, Parsonstown, and Bath, to above 70° over all the central and southern parts of the Continent, and to above 80° in places. Highest values, 84° at Berlin and 86° at Perpignan. Maximum as high as 70° at Stockholm.

Wind in morning very variable in direction, cyclonic circulations being shown in some parts of our area, and anticyclonic in others. Very light or only moderate in force generally, but a fresh Westerly gale prevailing at Hernösand. No change of importance occurring during day.

Barometer at 8 a.m. highest, 30·2 ins. and upwards (1) in an anticyclone stretching from the Shetlands to the west of Norway, (2) in a larger system over the south-east of Europe, the Black Sea, and Asia Minor, and (3) in a third area embracing the greater part of France, the Bay of Biscay, and the north of Spain. Lowest, less than 29·7 ins. in a depression centred near Haparanda, and below 30·0 ins. in two shallow disturbances lying respectively over the southern part of the North Sea and off Ireland. Northern anticyclone increasing in intensity during day, but that in the south-west beginning to give way. Swedish disturbance travelling south-eastwards.

IV.—GENERAL NOTES, etc.

The general distribution of pressure was very unstable and neither the high nor low pressure areas were of much intensity. The chief of the former lay over the north of Scandinavia at the commencement of the week and subsequently moved slowly in a southerly and south-easterly direction to the south of Russia and the Black Sea. There were also some feeble and transitory anticyclones shown from time to time over the south-western part of our area. All parts of the Continent and our Islands were visited by one or more depression some time during the week, but the systems were more common in the west and south than elsewhere. The winds were nearly always light or moderate in force and from various directions. Strong breezes from the eastward were, however, sometimes felt in Denmark, and a fresh gale from west-south-west at Christiansund, and from north-east at Athens on Friday. Temperature fluctuated a good deal, but was often high in the southern and central countries, and, towards the end of the week, rose to 70° as far north as Hernösand. The weather was almost continuously dry both over the north and the south of Europe, but in the other regions falls of rain were common, while thunderstorms, with heavy rain locally, were experienced on Thursday or Friday in many parts of France and Great Britain.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 122.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNESS	30·1	- 9·7	25	- 8	SHEFFIELD	7·9	—	7	—	WESTBOURNE †	22·2†	- 29·1	20†	- 26
STRATHPEFFER SPA	35·3	- 4·3	30	- 4	WORKSOP	4·9	- 34·3	4	- 30	VENTNOR HOSPITAL	27·4	- 22·6	25	- 21
EDINBURGH	18·1	- 19·3	16	- 17	THURCASTON	6·3	- 35·3	6	- 32	BOURNEMOUTH	26·8	—	24	—
COCKLE PARK	13·7	—	12	—	MARGATE	26·1	- 17·9	24	- 16	MARLBOROUGH	10·1	- 32·9	9	- 30
NEWCASTLE-ON-TYNE	14·3	—	12	—	BROADSTAIRS	28·1	—	25	—	SOUTHPORT	13·2	—	12	—
YORK	5·7	- 35·8	5	- 31	RAMSGATE	27·3	—	25	—	RHYL	17·0	—	15	—
SKEGNESS	? 15·0	—	? 13	—	EASTBOURNE	21·6	- 29·9	20	- 27	ABERDOVEY †	15·4†	—	14†	—
CROMER	20·1	—	18	—	BRIGHTON	24·0	- 26·6	22	- 24	TENBY	18·3	- 33·4	17	- 30
LOWESTOFT	18·0	—	16	—	WORTHING	24·1	—	22	—	TORQUAY	29·9	- 22·2	27	- 20
DUNMOW	18·3	—	17	—	BOGNOR †	31·7†	—	29†	—	NEWQUAY	22·3	- 28·4	20	- 26
										GUERNSEY †	36·8†	- 22·6	34†	- 21

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values below must be substituted for those which have already appeared.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Twenty Seventh Year No. 9, p. 54	Newcastle	—	—	—	—	—	—	—	—	—	—	—	5·3	—	7	—
" " " No. 9, p. 50	Llandudno	—	—	—	32·1	35·7	- 6·8	—	44	—	—	—	—	—	—	—
" " " " "	Tunbridge Wells	—	—	34·9	—	31·5	- 8·0	—	—	—	—	—	—	—	—	—
" " " " "	Lincoln	—	—	37·0	—	33·8	- 6·2	—	—	—	—	—	—	—	—	—
" " " No. 18, p. 104	Dungeness	—	—	—	—	—	—	—	—	—	0·56	+ 0·26	—	—	—	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* } No. 22. TWENTY-SECOND WEEK, ENDING SATURDAY, JUNE 4TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 128.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	79	40	65·0	45·9	54·3	5 above	90	+29	0	− 3	414	− 43	477	− 69
	1. SCOTLAND, EAST	78	38	64·4	44·5	53·7	2 above	82	+ 8	0	− 2	473	− 98	585	− 6
	2. ENGLAND, N.E.	70	38	61·5	46·2	53·3	1 above	79	+ 6	0	− 1	580	+ 6	431	− 59
	3. ENGLAND, EAST	71	40	60·9	49·5	54·8	1 above	90	− 1	0	− 1	663	− 65	404	−131
	4. MIDLAND COUNTIES	74	38	63·6	46·4	54·4	1 above	87	− 5	0	− 2	633	−124	474	− 73
	5. ENGLAND, SOUTH	74	42	63·1	49·9	56·0	1 above	98	− 1	0	0	708	−110	345	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	78	40	66·2	46·5	55·7	3 above	96	+16	0	− 1	520	−101	375	− 42
	7. ENGLAND, N.W.	74	40	62·8	47·5	54·6	1 above	88	0	0	− 1	549	−111	386	− 13
	8. ENGLAND, S.W.	73	42	63·5	50·0	56·3	2 above	100	+ 8	0	0	740	− 59	252	− 53
	9. IRELAND, NORTH	75	42	63·9	48·2	55·5	3 above	95	+12	0	− 1	561	−145	337	− 20
	10. IRELAND SOUTH	75	42	64·8	50·1	57·0	3 above	105	+14	0	0	750	−107	232	− 24
	— CHANNEL ISLANDS	72	47	62·0	51·6	56·4	1 above	101	+ 2	0	0	925	− 23	80	− 41

Rainfall.

Bright Sunshine.

	DISTRICTS. (See p. 128.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	2	4 less	106	+12	23·3	+ 4·1	72	+34	60	+29	486	− 24	26	− 1
	1. SCOTLAND, EAST	2	4	0 (average)	93	+14	12·3	+ 1·0	54	+13	45	+11	490	− 60	27	− 3
	2. ENGLAND, N.E.	2	4	1 less	83	+ 8	9·0	+ 0·1	41	+ 1	35	+ 1	514	− 84	28	− 5
	3. ENGLAND, EAST	3	5	0 (average)	80	+ 4	8·9	+ 0·4	28	−19	25	−16	549	−115	30	− 6
	4. MIDLAND COUNTIES	3	5	1 less	92	+21	11·4	+ 1·5	36	− 4	32	− 4	473	− 90	26	− 5
	5. ENGLAND, SOUTH	3	6	1 more	90	+20	13·1	+ 2·8	32	−12	29	−11	537	− 99	29	− 5
Principal Grazing Districts.	6. SCOTLAND, WEST	2	7	1 more	97	+15	22·2	+ 3·3	55	+11	47	+10	477	− 97	26	− 5
	7. ENGLAND, N.W.	3	9	4 more	92	+16	14·2	+ 2·4	50	+ 5	44	+ 4	501	− 56	27	− 3
	8. ENGLAND, S.W.	3	5	1 less	94	+16	17·3	+ 3·1	57	+ 9	51	+ 8	548	−128	30	− 7
	9. IRELAND, NORTH	2	6	0 (average)	109	+16	15·6	+ 2·4	57	+17	50	+14	498	− 69	27	− 4
	10. IRELAND, SOUTH	1	4	2 less	102	+17	17·8	+ 2·0	53	+ 9	47	+ 8	533*	−103	29	− 6
	— CHANNEL ISLANDS	3	4	0 (average)	105	+22	17·2	+ 5·1	61	+ 4	55	+ 3	660*	−113	36	− 6

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was mostly fair and dry, but a good deal of cloud prevailed in the south-east, centre, and east of England. Rain fell in all districts during one or more of the earlier days of the period, and was very heavy over the east of Ireland on Tuesday. Thunderstorms were experienced between May 30th and June 1st in several parts of England.

Temperature was above the mean in all districts, the excess ranging from 1° over the greater part of England and in the Channel Islands, to 3° in Ireland, and to 5° in Scotland N. The highest of the maxima occurred on somewhat irregular dates, but were more generally recorded on Saturday than on any other day. They ranged from 79° in Scotland N. (at Lairg) and 78° in Scotland E. and W., to 75° in Ireland, and to 70° in England N.E. The maximum at Lairg is the highest reading reported from any part of our Islands during the current year. The lowest of the minima, which were also registered on irregular dates, ranged from 38° in Scotland E., England N.E., and the Midland Counties, to 42° in England S. and S.W., and over Ireland, and to 47° in the Channel Islands.

Rainfall was considerably less than the mean in Scotland N., and as much more in England N.W., but in other parts of the Kingdom the fall differed little from the normal.

Bright Sunshine exceeded the mean generally, but was deficient in England S. and E. and the Midland Counties. The percentage of the possible amount ranged from 60 in Scotland N. and 55 in the Channel Islands, to 29 in England S., and to 25 in England E. The highest percentage registered was 65 at Stornoway, and the lowest, 18 at Broadstairs.

Barometer and Wind. Soon after the commencement of the week a shallow area of low pressure began to move northwards from the Bay of Biscay, and caused the general direction of the wind over our Islands to be Easterly. By Wednesday the system lay directly over Great Britain, while a brisk rise of the barometer had begun in the south-west, and the Easterly wind had been displaced by a Westerly or South-Westerly current except in Scotland. The baric rise in the south-west proved to be the prelude to an anticyclone, which, moving northwards as the depression had done, gradually embraced the whole of our Islands and the west of Norway. The winds by the end of the week had become Southerly in the west, and North-Easterly or Easterly in the south-east and east, while in the intervening regions they were variable.

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Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head	59	42	53·9	44·7	49·0	+ 1·6	49	0	0	0·00	− 0·43	*	*	*	*
	Stornoway	74	45	66·0	48·0	56·4	+ 6·8	101	0	1	0·24	− 0·32	79·4	+ 36·8	65	+ 30
	Wick	64	41	58·1	44·9	51·0	+ 1·3	63	0	0	0·00	− 0·40	*	*	*	*
	Lairg Ⓢ	79	40	72·3	43·9	57·1	+ 7·2	106	0	1	0·29	− 0·21	*	*	*	*
	Glencarron Ⓢ	76	41	68·3	44·8	55·7	+ 4·9	96	0	1	0·15	− 0·95	*	*	*	*
	Fort Augustus Ⓢ	77	40	68·2	45·4	56·0	+ 4·0	98	0	1	0·31	− 0·17	62·8	+ 32·6	52	+ 27
	Fort William	74	48	68·3	49·6	58·3	+ 6·0	114	0	2	0·25	− 0·60	76·9	+ 36·5	64	+ 30
1. SCOTLAND, E.	Nairn	73	41	65·3	44·3	54·1	+ 2·2	85	0	1	0·74	+ 0·35	*	*	*	*
	Aberdeen	65	40	59·3	44·4	51·3	+ 0·2	65	0	0	0·00	− 0·43	69·4	+ 25·9	58	+ 22
	Braemar Ⓢ	75	38	68·3	42·9	54·7	+ 5·7	89	0	2	0·14	− 0·36	*	*	*	*
	Ochtertyre Ⓢ	78	40	70·0	44·9	56·6	+ 4·0	102	0	3	0·54	− 0·05	*	*	*	*
	Leith	66	43	61·0	46·3	53·1	+ 0·3	78	0	3	0·66	+ 0·25	*	*	*	*
	Marchmont Ⓢ	70	38	62·3	44·0	52·5	+ 1·8	74	0	2	0·57	+ 0·01	46·3	+ 4·8	39	+ 4
2. ENGLAND, N.E.	Alnwick Castle	70	41	62·6	44·9	53·1	+ 2·4	78	0	2	0·20	− 0·26	*	*	*	*
	Durham	66	38	62·6	44·6	53·0	+ 0·7	77	0	3	0·25	− 0·19	45·3	+ 6·3	39	+ 5
	Shields	70	46	62·0	48·0	54·5	+ 3·1	88	0	2	0·07	− 0·32	*	*	*	*
	Scarborough Ⓜ	67	42	58·3	45·5	51·5	− 0·8	67	0	2	0·09	− 0·35	44·8	—	39	—
	Spurn Head	60	45	56·9	48·3	52·3	− 0·4	72	0	1	0·18	− 0·17	*	*	*	*
	Lincoln	68	40	63·7	46·1	54·3	− 0·1	86		2	0·78	+ 0·32	*	*	*	*
	Fulbeck (Lincolnshire)	67	40	64·1	45·8	54·3	0·0	86	0	3	1·05	+ 0·61	33·2	—	29	—
3. ENGLAND, E.	Hillington Ⓜ	71	41	62·8	47·6	54·7	+ 0·9	89	0	2	0·57	+ 0·12	29·7	− 16·4	26	− 14
	Yarmouth	61	48	56·9	50·6	53·5	+ 0·5	81	0	3	0·42	0·00	*	*	*	*
	Geldeston	68	40	60·2	48·3	53·8	+ 0·1	83	0	1	0·45	+ 0·05	22·1	− 26·2	19	− 23
	Cambridge	68	43	62·6	48·5	55·1	+ 0·2	92	0	3	0·50	+ 0·06	23·0	− 23·0	20	− 20
	Felixstowe	64	45	59·4	50·6	54·7	+ 1·7	89	0	2	0·30	—	27·4†	—	24†	—
	Clacton-on-Sea	63	45	60·9	50·7	55·4	+ 2·3	94	0	4	0·47	—	31·9†	—	28†	—
	Rothamsted	67	43	62·8	48·0	54·9	+ 1·1	90	0	4	0·32	− 0·14	35·1	− 9·3	31	− 8
	Shoeburyness	64	44	61·4	51·7	56·2	+ 2·8	99	0	3	0·56	+ 0·23	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	69	41	63·0	44·8	53·3	+ 2·2	79	0	3	0·44	− 0·11	36·8	—	32	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	68	38	63·6	44·9	53·6	− 0·6	81	0	3	0·74	+ 0·25	33·4	—	29	
	Colly Weston (Stamford)	67	41	63·7	45·4	53·9	− 0·8	83	0	6	0·63	+ 0·18	*	*	*	*
	Cheadle Ⓜ	71	42	62·3	46·3	53·7	+ 1·5	82	0	3	0·47	− 0·13	*	*	*	*
	Birmingham (Edgbaston)	70	46	62·8	48·1	54·9	+ 1·2	90	0	3	0·22	− 0·34	30·5	—	27	—
	Shrewsbury	74	39	65·1	46·4	55·1	+ 0·9	92	0	4	0·61	—	*	*	*	*
	Hereford Ⓜ	71	41	64·4	47·2	55·2	+ 0·3	92	0	3	0·48	+ 0·01	*	*	*	*
	Cirencester	68	41	62·9	46·4	54·1	+ 0·5	85	0	3	0·22	− 0·27	43·8	− 2·4	39	− 2
	Oxford	70	43	64·4	48·0	55·6	+ 0·4	95	0	2	0·21	− 0·23	40·5	− 4·5	36	− 4
5. ENGLAND, S.	London	70	48	65·0	51·0	57·5	+ 1·2	109	0	3	0·68	+ 0·26	30·0‡	− 11·6‡	27‡	− 10‡
	Wisley	70	47	63·9	50·1	56·5	+ 0·2	102	0	3	0·35	—	29·1	—	26	—
	Swarraton (Alresford) Ⓜ	70	42	63·9	48·4	55·6	+ 2·4	95	0	3	0·21	− 0·23	*	*	*	*
	Tunbridge Wells Ⓜ	70	45	62·6	49·4	55·5	+ 1·8	95	0	3	1·13	—	31·5	—	28	—
	Dungeness	65	49	59·7	50·9	55·0	+ 0·3	91	0	4	0·48	+ 0·18	21·5	—	19	—
	Hastings (St. Leonards)	70	46	63·8	49·7	56·3	+ 1·6	100	0	7	1·14	+ 0·77	30·2	− 22·9	27	− 20
	Southampton	74	47	68·5	51·7	59·5	+ 3·2	123	0	2	0·17	− 0·26	40·9	− 8·6	37	− 8
	Portland Bill	61	47	58·9	49·6	53·9	− 0·4	83	0	3	0·57	—	*	*	*	*
	Shaftesbury Ⓜ	67	44	61·6	48·5	54·6	+ 1·0	88	0	2	0·23	− 0·26	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Glasgow	73	42	65·6	47·0	55·7	+ 3·0	96	0	2	0·28	− 0·32	53·3	+ 15·9	45	+ 14
	Cally Ⓢ	78	41	70·3	46·0	57·3	+ 5·0	107	0	2	0·50	− 0·19	*	*	*	*
	Aspatria	73	44	66·5	46·4	55·8	+ 3·7	97	0	2	1·28	—	52·5	—	45	—
	Douglas (Isle of Man)	72	40	62·2	46·4	53·8	+ 1·3	83	0	2	0·88	+ 0·37	57·8	+ 6·6	50	+ 6
7. ENGLAND, N.W.	Newton Rigg	74	40	66·2	44·5	54·6	+ 3·4	88	0	2	1·02	—	55·6	—	48	—
	Stonyhurst	72	41	63·0	47·4	54·7	+ 1·5	89	0	2	1·00	+ 0·32	40·0	− 4·5	35	− 4
	Blackpool Ⓜ	67	40	61·7	47·0	53·8	0·0	83	0	3	0·71	+ 0·24	50·5	− 5·6	44	− 5
	Manchester (Prestwich)	72	43	63·9	46·7	54·7	+ 1·6	89	0	2	0·54	− 0·06	38·9	—	34	—
	Liverpool Obsy. (Bidston)	66	47	61·9	49·3	55·2	+ 0·7	92	0	3	0·83	+ 0·39	43·4	—	38	—
	Chester (Hawarden Bridge)	70	41	63·0	47·8	54·9	− 0·2	90	0	3	0·54	—	*	*	*	*
	Llandudno Ⓜ	68	46	60·6	49·4	54·6	+ 0·1	88	0	3	1·38	+ 0·94	59·4	+ 13·4	52	+ 12
	Holyhead	65	47	61·0	48·7	54·4	+ 0·7	87	0	2	0·98	+ 0·56	*	*	*	*
	Bettws-y-Coed	73	41	64·0	46·6	54·7	+ 1·1	89	0	3	0·82	—	50·7	—	45	—
8. ENGLAND, S.W.	Pembroke	65	46	60·9	49·3	54·7	+ 1·4	89	0	3	0·19	− 0·25	55·3	+ 2·7	49	+ 2
	Clifton	73	46	66·0	50·7	57·8	+ 3·2	111	0	4	0·42	− 0·10	*	*	*	*
	Bath	71	44	65·3	50·1	57·2	+ 1·9	106	0	4	0·56	+ 0·07	41·8	—	37	—
	Arlington (N. Devon)	70	42	63·7	47·9	55·3	+ 2·6	93	0	3	0·35	− 0·33	*	*	*	*
	Cullompton Ⓜ	72	44	66·6	50·3	57·9	+ 2·8	111	0	3	0·42	− 0·08	47·3	+ 1·0	42	+ 1
	Falmouth	64	50	60·1	51·6	55·6	+ 0·6	95	0	2	0·25	− 0·31	62·3	+ 8·6	56	+ 8
	Plymouth	64	46	61·8	49·9	55·4	− 0·6	94	0	3	1·02	+ 0·56	66·1	+ 16·1	60	+ 15
9. IRELAND, N.	Malin Head	66	46	61·9	48·6	54·8	+ 2·6	90	0	2	0·55	+ 0·05	*	*	*	*
	Edenfel (Omagh)	75	43	68·1	47·7	57·2	+ 5·0	106	0	1	0·45	− 0·15	*	*	*	*
	Blacksod Point	68	49	62·4	52·3	57·0	+ 3·7	105	0	1	0·20	− 0·43	*	*	*	*
	Markree Castle	71	42	65·8	47·4	56·0	+ 3·8	98	0	2	0·33	− 0·34	50·6	+ 9·9	44	+ 9
	Armagh	74	43	65·9	46·8	55·7	+ 2·6	96	0	1	0·73	+ 0·21	64·2	+ 23·3	55	+ 20
	Donaghadee	68	43	59·1	46·6	52·4	− 0·5	73	0	2	1·21	+ 0·71	*	*	*	*
10. IRELAND, S.	Dublin	71	48	66·3	50·5	57·9	+ 2·9	111	0	2	1·10	+ 0·65	67·9	+ 21·1	59	+ 18
	Birr Castle	74	44	66·9	48·6	57·1	+ 3·2	106	0	1	0·47	− 0·07	43·0	+ 2·2	38	+ 2
	Kilkenny	71	44	65·1	49·3	56·7	+ 2·7	103	0	1	0·63	+ 0·11	*	*	*	*
	Waterford	71	45	63·9	50·7	56·8	+ 3·1	104	0	1	0·36	− 0·19	*	*	*	*
	Roche's Point	62	47	60·0	50·4	54·9	− 0·2	90	0	2	0·20	− 0·49	*	*	*	*
	Valencia	70	44	63·0	51·3	56·7	+ 2·4	103	0	1	0·10	− 0·66	49·0	+ 2·3	43	+ 2
	Killarney	69	42	65·9	49·8	57·3	+ 3·4	107	0	1	0·15	− 0·51	*	*	*	*
	Foynes	75	44	67·6	50·2	58·3	+ 4·4	114	0	1	0·10	− 0·46	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	? 63	50	60·6	51·1	55·5	+ 0·5	95	0	3	0·14	− 0·26	66·1	+ 10·1	60	+ 9
	Jersey	72	47	63·4	52·0	57·3	+ 1·0	107	0	3	0·70	+ 0·26	52·2	− 4·7	48	− 4

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

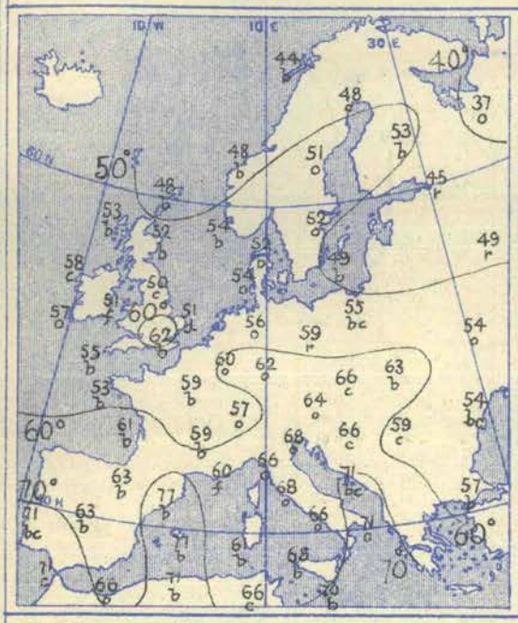
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 29th May, 1904.

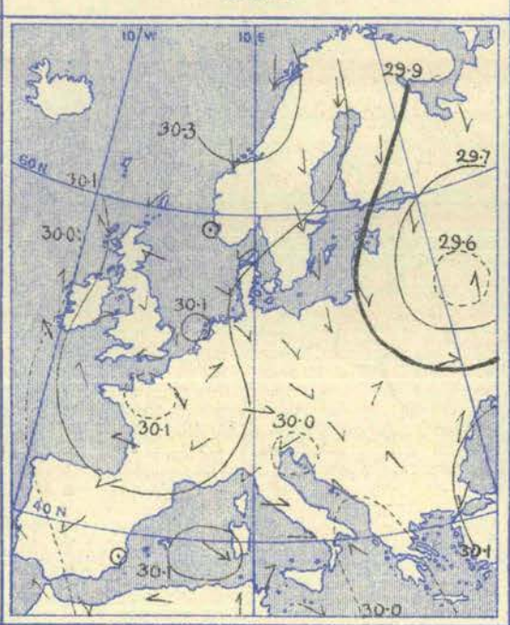
Temperature and Weather.

8 a.m.

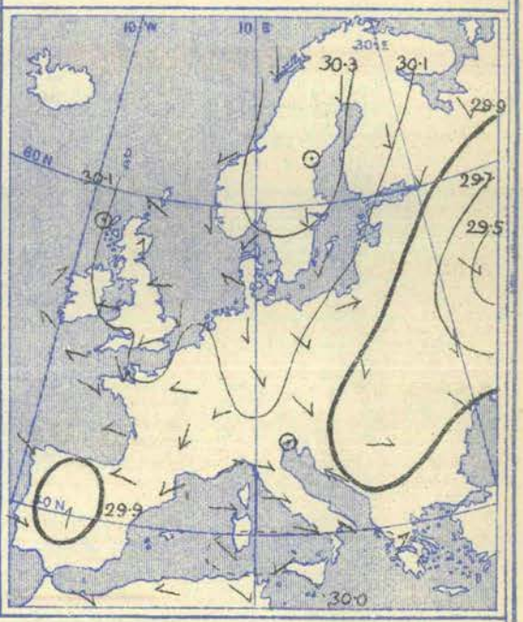


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. fine and bright in most parts of our area, but much cloud prevailing in the north and east of England, as well as in central Europe and Russia. Drizzling rain falling at Yarmouth, and heavier rain at Berlin, St. Petersburg, and Moscow. Fog prevailing at Portland Bill and over the Irish Sea. A little rain experienced later at some German and Austrian stations, and larger quantities in the south of Russia—as much as 1·0 in. at Kharkov.

Temperature changed rather irregularly. Readings in morning highest, 78° at Alicante, 77° at Barcelona and Palma, and above 70° at several stations on the shores of the Mediterranean and also in Portugal. Lowest, 37° at Archangel, 44° at Bodö, 45° at St. Petersburg, 49° at Moscow, Wick, and Donaghadee, and 51° at Pembroke and Yarmouth. Thermometer rising to 70° later in the southern counties of England, but only to 54° at Yarmouth. Maxima above 80° in many southern localities of the Continent and in Algeria. Highest values, 97° at Aumale and 90° at Bilbao.

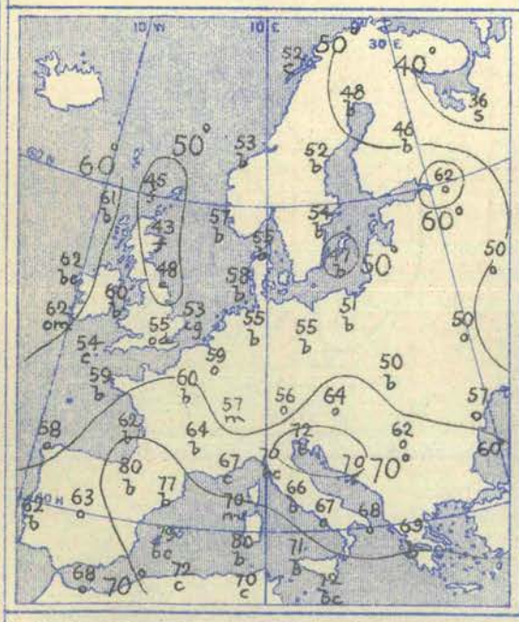
Wind at 8 a.m. light or moderate in force in nearly all regions. Rather variable but mainly anticyclonic over the western countries (except around Holland), and cyclonic over Russia and its neighbourhood. A feeble cyclonic movement setting in by evening over the Iberian Peninsula, but not much change occurring elsewhere.

Barometer at 8 a.m. ranging from above 30·3 ins. in an anticyclone having its centre over the north of Norway, and above 30·1 ins. over most parts of our Islands, France, and the west of Germany, to about 30·05 ins. in a depression over and to the northward of Holland, and to 29·6 ins. and less in a large disturbance over central Russia. Norwegian anticyclone and Russian depression both travelling eastwards later. Barometer falling decidedly in the south-west of Europe, and a minimum forming over central Spain.

Monday, 30th May, 1904.

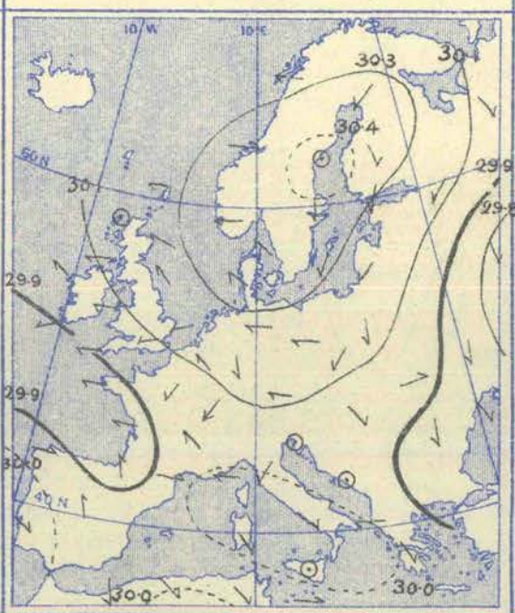
Temperature and Weather.

8 a.m.

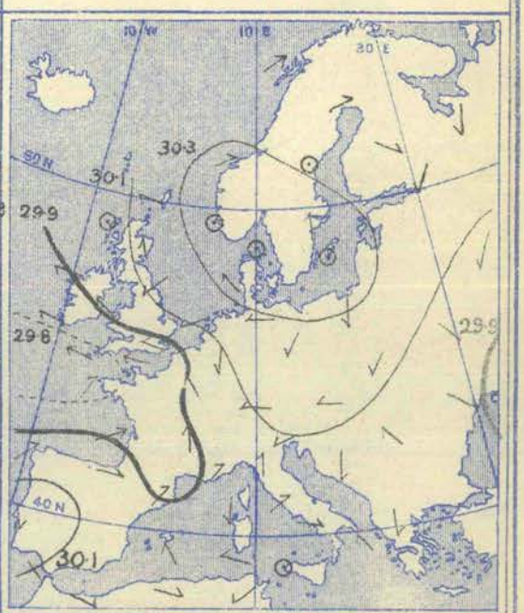


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. fine and bright in Scandinavia, Finland, Denmark, and Germany, at most of our own north-western stations, and in many parts of southern Europe. Dull or cloudy elsewhere, with mist or fog on our north-east and south coasts, and rain over central England. Snow falling at Archangel. Rain falling later at Bodö, over the southern parts of our Islands, and the west and north of France. Thunderstorms occurring in many French and in some English localities.

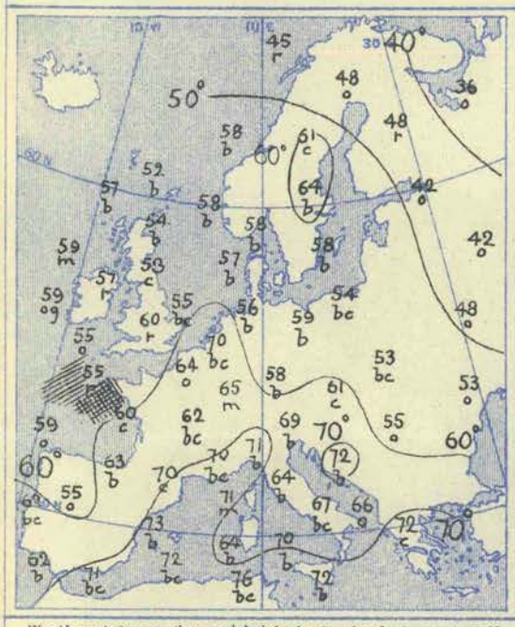
Temperature changed very irregularly. Morning readings highest, 82° at Bilbao, 80° at Biarritz and Cagliari, 79° at Palma, 72° at Algiers, Malta, and Trieste, and about 70° at several other southern stations. Lowest, 36° at Archangel, 43° at Aberdeen, 47° at Nottingham, and 50° or 51° in Little Russia and at Lemberg. Rising later to above 60° in Sweden, 70° at Stornoway, 73° at Brighton, and to about 80° in most parts of southern Europe and Algeria. Highest readings, 99° at Aumale and 88° at Clermont. Maximum only 55° on the north-east coast of England.

Wind at 8 a.m. Westerly or North-Westerly over Spain and Portugal, Easterly in the west of France, and Easterly or South-Easterly over the United Kingdom. A complete anticyclonic circulation prevailing around Sweden, and an irregular movement of winds over the Mediterranean. Fresh in force at one or two of our own south-western stations, but moderate to very light generally. Very little change later, excepting an increase in strength on our southern coasts and over the Channel.

Barometer at 8 a.m. ranging from above 30·4 ins. in an anticyclone centred over Sweden, to below 29·9 ins. in a depression over the Bay of Biscay and its neighbourhood, and to less than 29·7 ins. in another system over the centre and south of Russia. Barometer rising later in the south of Russia, Scandinavian anticyclone moving south-eastwards, and depression in the south-west travelling northwards.

Tuesday, 31st May, 1904.

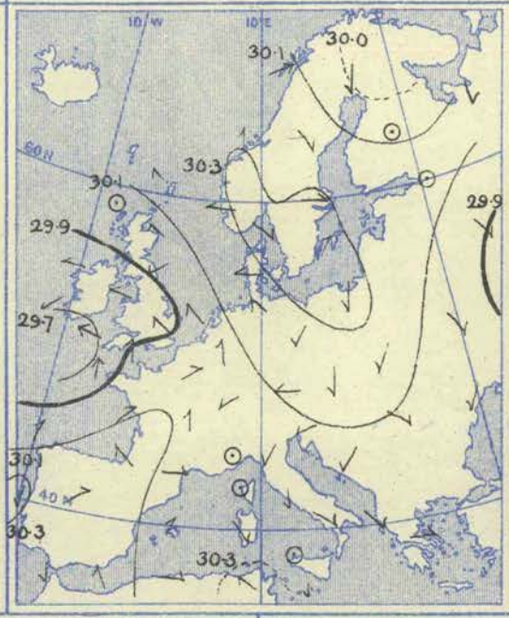
Temperature and Weather. 8 a.m.



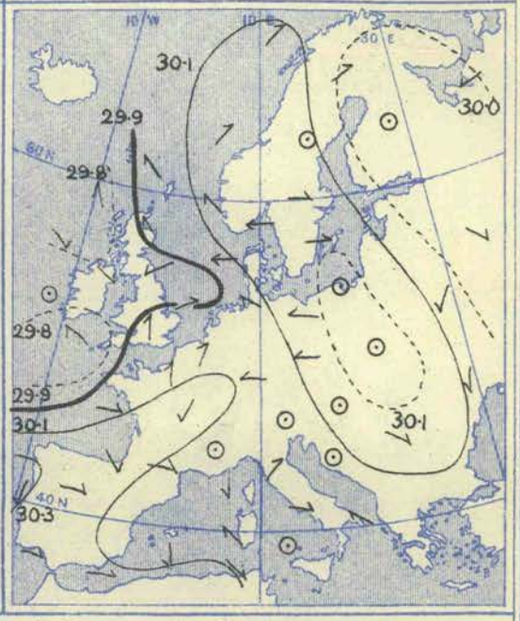
Weather at 8 a.m. fine and bright in Scotland, the west of Norway, Denmark, the Baltic, and central and southern Europe; cloudy or overcast elsewhere, with rain at Kuopio, Bodö, several English stations, as well as in the north of France and at Limoges. Rain during day throughout our Islands and France, and also at Turin, and thunder heard at Holyhead. Heaviest rainfall, 1·1 ins. at Donaghadee and 0·8 in. at Cape Gris Nez.

Temperature risen over Great Britain and Scandinavia; fallen in most other regions. Morning readings ranging from 76° at La Calle, about 70° at most southern stations, and 64° at Paris and Stockholm, to little above 50° on our north-east coasts, 42° at St. Petersburg and Moscow, and to 36° at Archangel. Maxima during day as high as 75° at Stockholm, 72° at Hernösand, 74° at Stornoway, and 80° or above in many parts of central and southern Europe—highest values, 86° at Palma and 93° at Florence. Thermometer not rising above 55° at Dungeness.

Barometer and Wind. 8 a.m.



6 p.m.

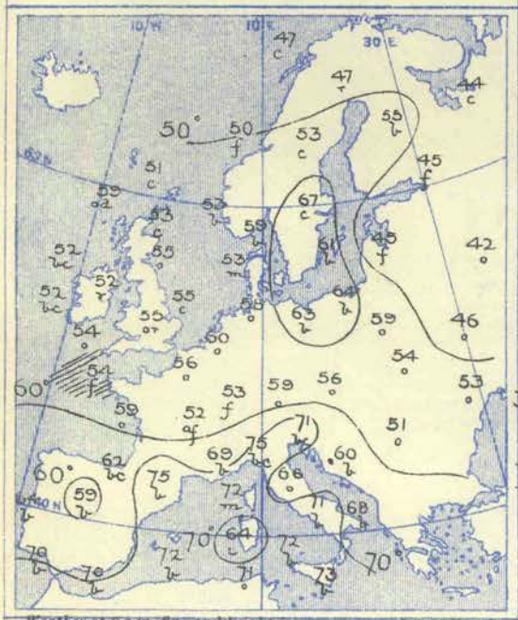


Wind at 8 a.m. light or moderate to fresh from between South and South-East or East over the United Kingdom and its neighbourhood. Light and anticyclonic over the Baltic and the central countries, and light and variable in the south. Little change as a whole later, but wind veering to West-South-West in the east of England.

Barometer at 8 a.m. ranging from above 30·3 ins. in a high pressure area lying over the Baltic, Denmark, and the adjacent portion of Scandinavia, to less than 30·0 ins. in Lapland and Tunis, below 29·9 ins. over the centre and south of Russia, and to below 29·7 ins. in an irregularly shaped depression having its centre off the Scilly Islands. Pressure changing slightly but very irregularly during day, especially over the United Kingdom. Anticyclone decreasing somewhat in intensity.

Wednesday, 1st June, 1904.

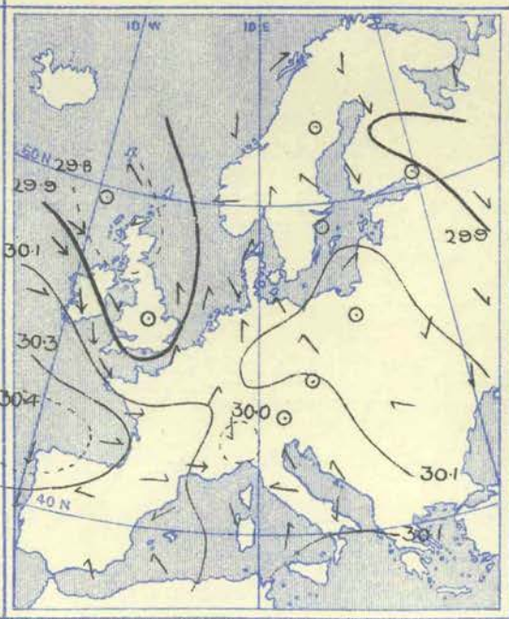
Temperature and Weather. 8 a.m.



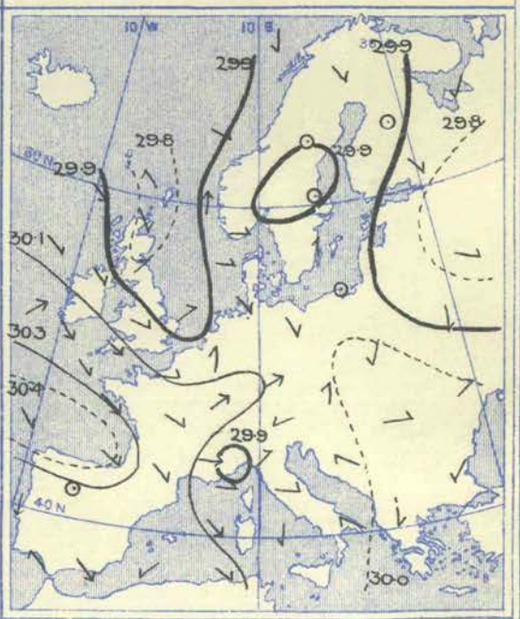
Weather at 8 a.m. fine and bright in many parts of Scandinavia, Finland, central and southern Europe, but cloudy or overcast in most other regions, and rainy in several British localities and in the north of France. Heavy rain falling later in Holland—as much as 1·1 ins. at the Helder—and considerable amounts in many parts of our Islands and the east of France—0·8 in. at Holyhead, 0·7 in. at Nairn, and 0·5 in. at Bath. Thunderstorms experienced in a few parts of England, especially in Surrey.

Temperature fallen over the United Kingdom, France, and the Netherlands, risen or changed little elsewhere. Morning readings above 70° in many southern regions (76° at Palma), and as high as 65° at Stockholm, but below 50° over the greater part of Russia, at Bodö, and Malin Head, only 53° at Portland Bill, and 54° at Limoges. Rising during day to 70° at North Shields, 72° at Stockholm, 77° at Swinemünde, Buda-Pesth, and Barcelona, and to 80° or above at some Italian, Spanish, and Algerian stations. Highest value, 88° at Sfax.

Barometer and Wind. 8 a.m.



6 p.m.

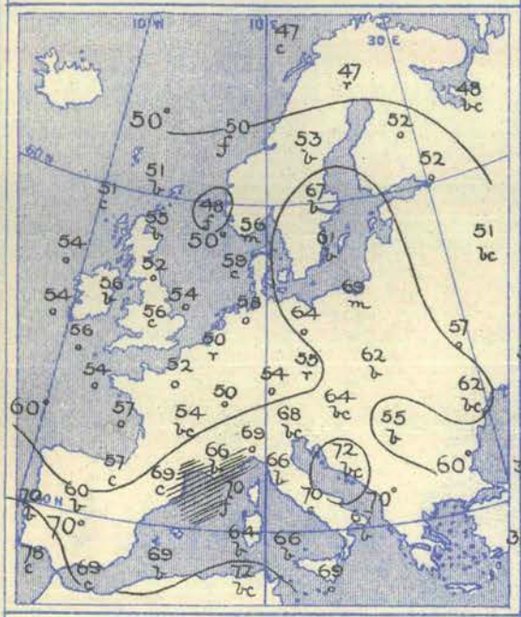


Wind in morning fresh or strong from between West and North-West along all our west coasts and in the west of France, and moderate or light from the Southward or South-Eastward along the east coast of Great Britain. Light anticyclonic winds prevailing over the major part of the Continent. North-Westerly current extending further eastward over our Islands during day, but little other change.

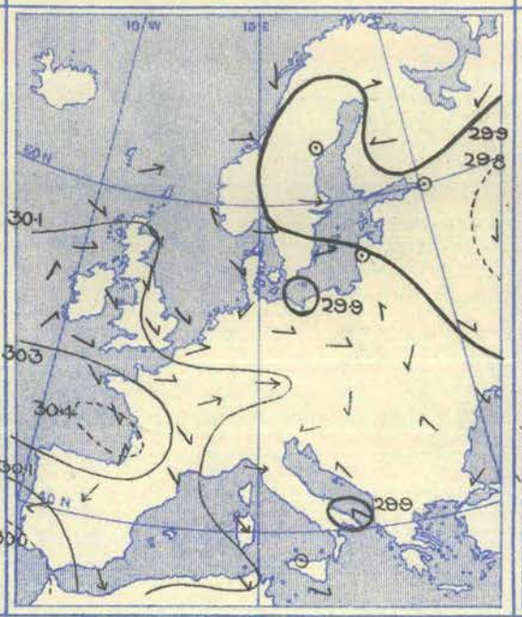
Barometer at 8 a.m. highest, 30·4 ins. and upwards in the north of Spain, above 30·1 ins. over central Europe, and above 30·0 ins. in a ridge extending northwards to Bodö. Lowest, 29·9 ins. to nearly 29·7 ins. in a large "V" shaped disturbance having its minimum near Stornoway and extending southwards to the north-east of France; below 29·9 ins. in a large shallow area over the north of Russia. Spanish high pressure extending north-eastwards later, and "V" shaped depression moving eastwards. A shallow disturbance appearing over Sweden and a small minimum over the Gulf of Bothnia.

Thursday, 2nd June, 1904.

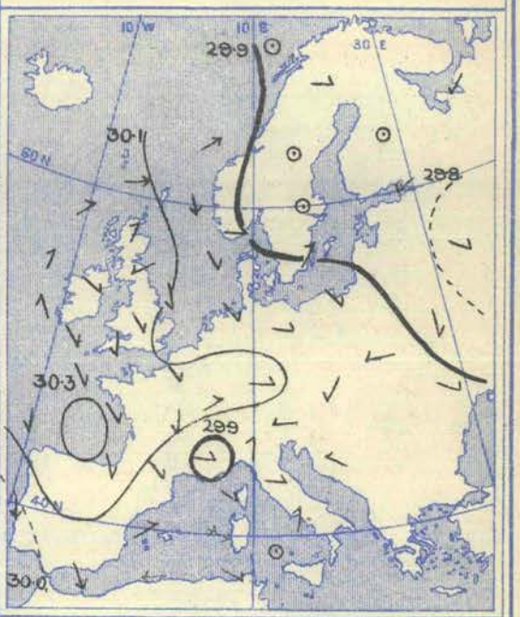
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright at many of our western and northern stations, over Sweden and southern Europe; cloudy or dull elsewhere. Fog prevailing on the west coast of Norway, and rain at Haparanda, Brussels, and in parts of Germany. A little rain later in some of the western countries, but weather remaining dry generally.

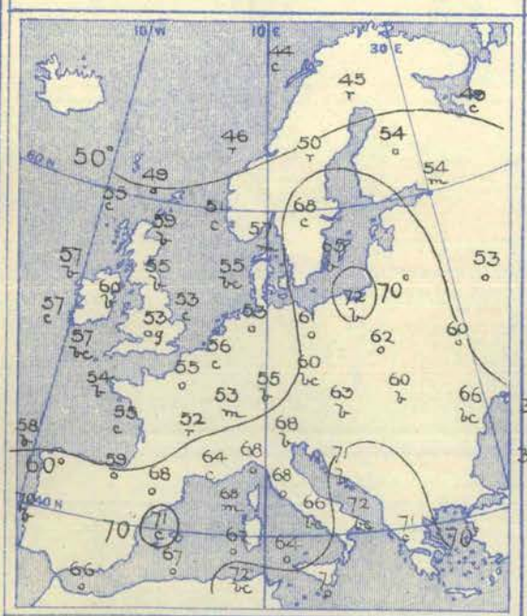
Temperature changed irregularly. Morning readings highest, 78° at San Fernando, and about 70° at many other southern stations, 69° at Neu-Fahrwasser, and 67° at Stockholm. Lowest, 47° in the north of Scandinavia, 50° at Brussels and Belfort, 51° at Moscow, Kharkov, Stornoway, and Limoges. Thermometer rising to 77° at Stockholm during day, to a similar height at many German and Austrian stations, and to above 80° further south. Maximum in London only 57°, and at Paris 60°.

Wind at 8 a.m. light from South-Westward on the west coast of Ireland, and moderate from North or North-West over our Islands generally. Moderate anticyclonic breezes prevailing over the greater part of France and the Bay of Biscay, and irregularly cyclonic—mostly light—over the Continent as a whole. Not much change taking place later, but Northerly and North-Westerly current becoming less decided over England, and giving place to variable winds in Scotland.

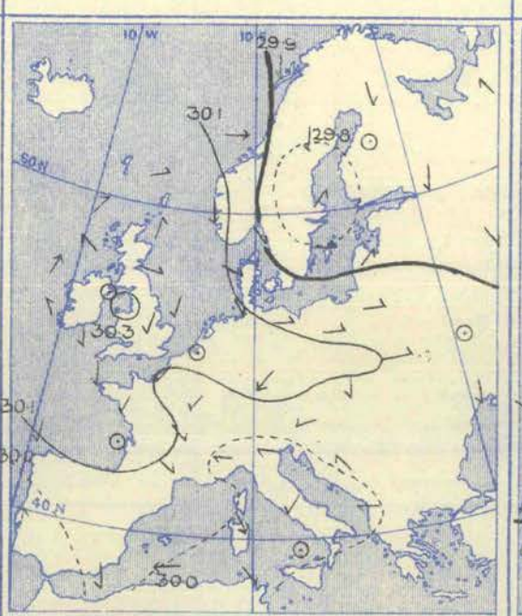
Barometer in morning highest, above 30·4 ins. in an anticyclone centred over the Bay of Biscay, and lowest, less than 29·8 ins. in a depression over central Russia. Distribution of pressure very irregular, and disturbances of little depth shown in several parts of our area. Southern anticyclone extending northwards over our Islands during day, and pressure giving way steadily over the Peninsula and the south of France.

Friday, 3rd June, 1904.

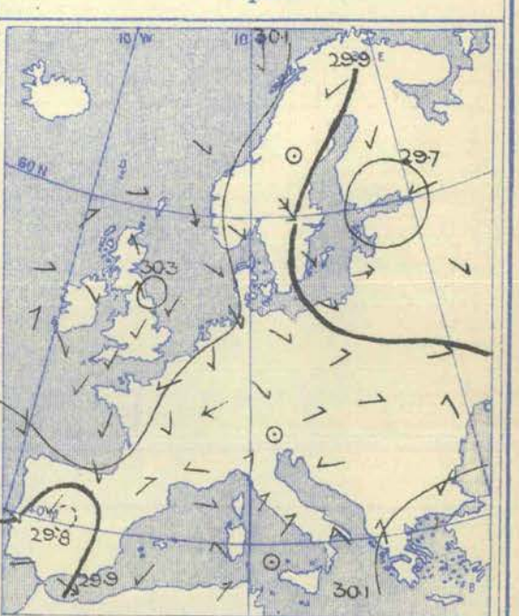
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in nearly all parts of our Islands, central and southern Europe, and in the south of Scandinavia; cloudy or overcast in most other regions, with rain at Christiansund and in the north of Sweden, and also in several parts of France. As much as 0·55 in. of rain falling later at Hernösand, smaller amounts in Finland and at some French stations, and 0·91 in. at Turin.

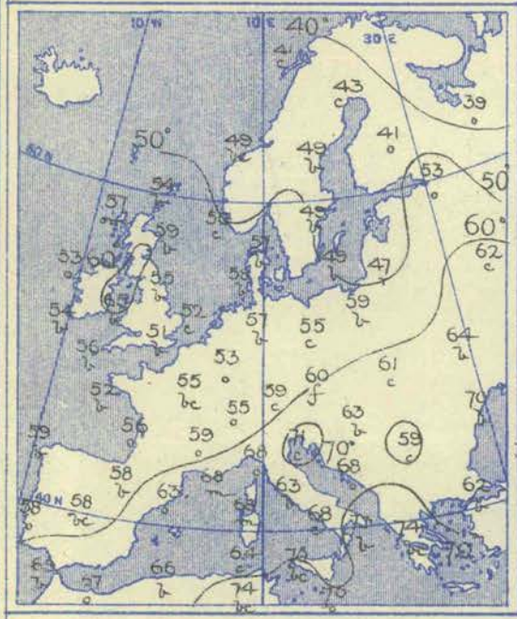
Temperature risen in most regions, but fallen at some stations. Morning readings highest, (1) 72° at La Calle and Brindisi, (2) 72° at Neu-Fahrwasser, 68° at Stockholm. Lowest, 44° at Bodö, 45° at Haparanda, 49° at Sumburgh Head, 51° at Limoges, 52° at Lyons, and 53° over the south and south-east of England and at St. Petersburg. Rising later to 70° at Stockholm, 72° at Parsonstown, 75° at Berlin, 81° at Hermanstadt, 84° at Sfax, and 86° at Madrid. Maxima no higher than 60° on the coast of Sussex, and only 54° and 53° respectively at Margate and Lowestoft.

Wind at 8 a.m. showing a cyclonic circulation of moderate strength over the northern Europe, an irregular cyclonic movement over the Mediterranean, and an anticyclonic circulation over the United Kingdom. A fresh gale from North-West setting in at Stockholm by 6 p.m., and a moderate gale from East at San Fernando.

Barometer in morning ranging from above 30·2 ins. in an anticyclone covering the whole of our Islands and the Bay of Biscay, to below 29·8 ins. in a depression over Sweden. Relatively low areas also found over the Mediterranean and Italy, as well as over the south-west of Spain. Swedish depression travelling eastwards, and increasing in depth during day, and a small minimum forming near Madrid. Anticyclone extending northwards to Norway.

Saturday, 4th June, 1904.

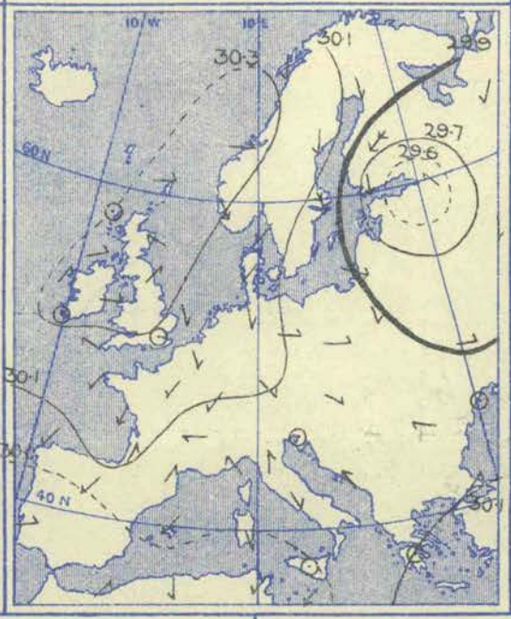
Temperature and Weather. 8 a.m.

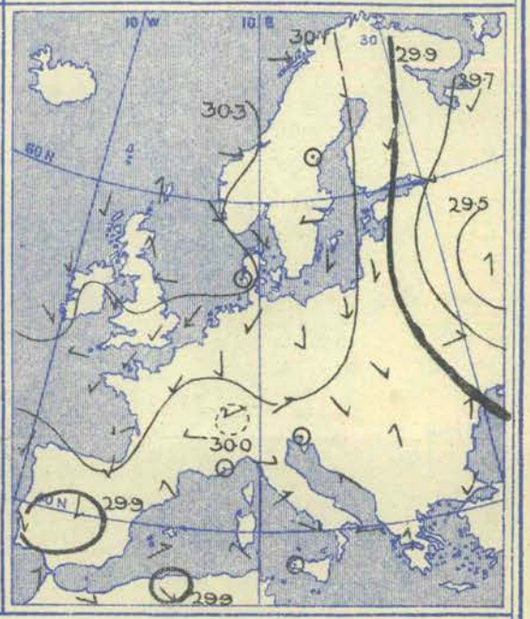


Weather at 8 a.m. fine and bright generally, but cloudy or overcast in various parts of France and central Europe, and also in Finland and the northern half of Russia. Rainy at Memel. Thunderstorms later over the southern half of France, and heavy local rains experienced in several parts of the Continent—0·4 in. at Besançon and Moscow, 0·5 in. at Turin, 0·8 in. at Archangel, and 1·7 ins. at Munich. Weather very dry and fine over our Islands.

Temperature fallen quickly over Sweden, Finland, and East Prussia; changed irregularly elsewhere. Morning readings highest, 74° at Patras and La Calle, 71° at Palma and Lésina, 70° at Odessa, and 67° at Cracow. Lowest, 39° at Archangel, 41° at Knopio and Bodö, 51° in London and at Oxford, and 53° at Brussels. Rising later to 70° or a little higher in parts of these Islands, Germany, and France, and to above 80° at Buda-Pesth and in the most southern countries. Highest values, 86° at Madrid and 92° at Malta.

Barometer and Wind. 8 a.m. and 6 p.m.





Wind at 8 a.m. light or moderate over our Islands and the neighbouring parts of the Continent, with an anticyclonic circulation. Cyclonic over Sweden, Finland, and Russia, the Northerly current over the Gulf of Bothnia and Finland and at Knopio being strong to a gale. Little change in direction during day, but wind increasing in force from the North-Eastward on our south-east coasts, and gales over northern Europe subsiding.

Barometer at 8 a.m. highest, 30·3 ins. and upwards in an anticyclone covering the greater part of the United Kingdom and the west of Norway. Lowest, less than 29·6 ins. in a depression centred to the southward of St. Petersburg. Gradients slight generally, but steep over Finland and the Baltic. Russian depression travelling away south-eastwards by evening and gradients decreasing. Barometer falling slightly over France, our south-east coasts, and the Spanish Peninsula, and rising briskly in the rear of the Russian minimum, but changing very little over our area as a whole.

IV.—GENERAL NOTES, etc.

At the commencement of the week the distribution of pressure was somewhat irregular, but the chief features were an anticyclone centred over the north of Norway and a depression over central Russia. During the next few days the anticyclone travelled slowly south-eastwards to the most south-eastern countries of Europe, and became much reduced in intensity, while a shallow depression moved northwards over Spain and the Bay of Biscay to the United Kingdom. During this time the winds were mainly South-Easterly to Easterly in the western regions, and North or North-Westerly in the east, while in southern Europe and the Mediterranean they were light and variable. By Wednesday the lowest pressure was found over Scotland, while an anticyclone which subsequently moved northwards and became established over our Islands had appeared over the north of Spain. Towards the end of the week while the anticyclone just mentioned lay over the British Isles, a rather deep depression over Finland produced strong winds or gales from the Northward throughout Sweden, Finland, and the Baltic. Temperature continued high over the southern and central countries and rose to above 70° in Sweden generally, and as high as 66° at Haparanda. In Russia, Norway, and the southern part of the United Kingdom temperature showed little or no rise. Thunderstorms occurred from time to time over Switzerland and at various French stations, and during the earlier half of the week several parts of England were similarly visited. The weather was again fine in most of the southern regions, but rather variable elsewhere; in Sweden and Norway it was almost continuously fine and bright until towards the end of the week when a sudden decrease of temperature brought about by the strong Northerly wind current was accompanied by rain.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 128.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNESS	66·5	+ 28·8	54	+ 23	SHEFFIELD	32·5	—	28	—	WESTBOURNE	40·0†	- 10·4	36†	- 9
STRATHPEFFER SPA	76·0	+ 37·5	63	+ 31	WORKSOP	33·4	- 4·8	29	- 4	VENTNOR HOSPITAL	43·0	- 5·3	38	- 5
EDINBURGH	45·1	+ 8·9	38	+ 8	THURCASTON	35·9	- 5·2	31	- 5	BOURNEMOUTH	45·9	—	41	—
COCKLE PARK	48·0	—	41	—	MARGATE	21·6	- 21·9	19	- 19	MARLBOROUGH	42·1	- 0·9	37	- 1
NEWCASTLE-ON-TYNE	36·2	—	31	—	BROADSTAIRS	19·7	—	18	—	SOUTHPORT	44·0	—	38	—
YORK	37·1	- 3·5	32	- 3	RAMSGATE	20·9	—	19	—	RHYL	47·8	—	42	—
SKEGNESS	34·3	—	30	—	EASTBOURNE	27·5	- 23·8	25	- 21	ABERDOVEY	62·5†	—	55†	—
CROMER	24·6	—	22	—	BRIGHTON	35·3	- 15·7	32	- 14	TENBY	60·8	+ 8·2	54	+ 7
LOWESTOFT	25·5	—	22	—	WORTHING	36·9	—	33	—	TORQUAY	55·7	+ 2·5	50	+ 2
DUNMOW	32·5	—	29	—	BOGNOR	42·1†	—	38†	—	NEWQUAY	67·8	+ 16·5	61	+ 15
										GUERNSEY	65·1†	+ 6·1	59†	+ 5

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

Reports received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending April 2nd, 1904.	Bawtry	54	—	50·9	—	—	—	—	—	6	0·50	+ 0·14	—	—	—	—
" " " "	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	29·6	—	33	—
" " " 9th, "	Bawtry	61	—	54·6	—	—	—	—	—	4	0·16	- 0·21	—	—	—	—
" " " 16th, "	Lowestoft	—	—	—	—	—	—	—	—	—	—	—	39·6	—	42	—
" " " 23rd, "	Bawtry	63	—	58·4	—	—	—	—	—	1	0·07	- 0·31	—	—	—	—
" " " "	Douglas	58	36	52·6	40·9	47·0	+ 1·0	40	3	4	0·45	- 0·09	55·2	+ 11·8	55	+ 12

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 23. TWENTY-THIRD WEEK, ENDING SATURDAY, JUNE 11TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 134.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	75	39	60·6	46·0	52·8	1 above	76	+ 9	0	− 2	490	− 34	477	− 71
	1. SCOTLAND, EAST	78	37	59·0	44·9	51·5	1 below	67	−15	0	− 1	540	−113	585	− 7
	2. ENGLAND, N.E.	71	41	57·5	46·9	51·9	2 below	69	−17	0	0	649	− 11	431	− 59
	3. ENGLAND, EAST	68	45	60·2	48·5	53·9	1 below	83	−17	0	0	746	− 82	404	−131
	4. MIDLAND COUNTIES	75	41	62·2	46·2	53·7	2 below	82	−19	0	0	715	−143	474	− 73
	5. ENGLAND, SOUTH	74	42	63·1	48·0	55·0	1 below	91	−18	0	0	799	−128	345	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	76	40	64·7	46·4	54·9	1 above	90	+ 2	0	0	614*	− 95	375	− 42
	7. ENGLAND, N.W.	76	37	62·7	46·3	54·0	1 below	84	−12	0	0	633	−123	386	− 13
	8. ENGLAND, S.W.	71	38	63·8	48·4	55·6	0 (average)	95	− 6	0	0	835	− 65	252	− 53
	9. IRELAND, NORTH	78	41	63·2	48·5	55·3	1 above	93	+ 2	0	0	654	−143	337	− 20
	10. IRELAND SOUTH	77	43	66·5	48·4	56·8	1 above	104	+ 4	0	0	854	−103	232	− 24
	— CHANNEL ISLANDS	69	49	61·4	52·0	56·4	0 (average)	101	− 7	0	0	1026	− 30	80	− 41

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 134.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	0	—	6 less	106	+ 8	23·3	+ 3·5	65	+27	53	+22	551	+ 4	28	0
	1. SCOTLAND, EAST	0	less than half	5 less	93	+10	12·3	+ 0·5	36	− 4	30	− 3	535	− 64	27	− 3
	2. ENGLAND, N.E.	1	1	4 less	84	+ 6	9·1	− 0·2	26	−14	22	−12	540	− 98	28	− 5
	3. ENGLAND, EAST	2	2	3 less	82	+ 3	9·1	+ 0·2	37	− 9	32	− 8	586	−123	30	− 6
	4. MIDLAND COUNTIES	1	1	4 less	93	+19	11·4	+ 0·9	37	− 2	32	− 2	510	− 92	26	− 5
	5. ENGLAND, SOUTH	2	2	3 less	92	+19	13·3	+ 2·6	42	− 6	37	− 5	579	−105	30	− 5
Principal Grazing Districts.	6. SCOTLAND, WEST	1	1	6 less	98	+13	22·2*	+ 2·7	70	+24	60	+20	547	− 73	28	− 4
	7. ENGLAND, N.W.	1	3	3 less	93	+14	14·5	+ 2·1	61	+21	53	+18	562	− 35	29	− 2
	8. ENGLAND, S.W.	2	1	4 less	96	+15	17·4	+ 2·7	49	− 2	43	− 2	597	−131	30	− 7
	9. IRELAND, NORTH	2	3	3 less	111	+14	15·9	+ 2·2	63	+22	53	+19	561	− 46	29	− 2
	10. IRELAND, SOUTH	2	1	5 less	104	+16	17·9	+ 1·5	69	+25	60	+22	602	− 78	31	− 4
	— CHANNEL ISLANDS	4	2	2 less	109	+23	17·4	+ 4·9	29	−29	26	−26	689	−142	35	− 7

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather. During the earlier half of the week the weather was fair and dry in all but the extreme southern parts of the Kingdom, where thunderstorms occurred on the 6th; the accompanying rainfall was, however, not heavy. Later on rain was experienced in all the English and Irish districts, while thunder occurred in isolated places. In Scotland the weather remained dry.

Temperature differed but little from the mean. In Ireland and the west and north of Scotland there was a slight excess, and in most other districts a slight deficit. In England S.W. and the Channel Islands the weekly value agreed precisely with the average. The highest readings were recorded in the early part of the week, chiefly on the 6th, when the thermometer rose to 75° and upwards in most districts, and to 78° in Scotland E. and Ireland N. In England E. and the Channel Islands it did not reach 70°, and at many stations on the east coast of Great Britain the daily maxima were frequently below 55°. The lowest readings, which occurred on varying dates, but mostly in the latter part of the week, ranged from between 37° and 40° in the western and northern parts of Great Britain, to 45° in England E., and to 49° in the Channel Islands.

Rainfall was generally deficient, England N.W. and Ireland N. being the only districts in which it amounted to even as much as half the average quantity. In the north and east of Scotland there was practically none.

Bright Sunshine was considerably in excess of the average in Ireland, the west and north of Scotland, and the north-west of England, but was deficient elsewhere, the total duration in the Channel Islands being only one-half the average. The percentage of the possible duration ranged from 60 in Scotland W. and Ireland S., to 26 in the Channel Islands, and to 22 in England N.E.

Barometer and Wind. The winds were continuously from East or North-East, and on our east coasts they were often fresh to strong in force. Throughout the greater part of the week an anticyclone, previously existing over western and central Europe, was gradually dispersing and moving northwards, while a complex low pressure system was spreading very slowly northwards from France and Spain. On reaching the neighbourhood of our own southern coasts, however, the low pressure area gradually dispersed, and at the close of the week the anticyclone, which had by this time receded to the northward of these Islands, was beginning to spread southwards again.

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Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	?59	41	53·3	44·4	48·5	+ 0·1	46	0	0	0·00	− 0·44	*	*	*	*
	Stornoway	65	43	59·3	45·7	52·0	+ 1·0	70	0	0	0·00	− 0·55	81·4	+ 38·9	66	+ 31
	Wick	64	39	58·9	45·4	51·7	+ 0·8	68	0	0	0·00	− 0·40	*	*	*	*
	Lairg Ꞩ	73	42	63·3	44·4	53·2	+ 1·9	78	0	0	0·00	− 0·52	*	*	*	*
	Glencarron Ꞩ	71	42	63·1	45·7	53·8	+ 1·7	83	0	0	0·00	− 1·13	*	*	*	*
	Fort Augustus Ꞩ	75	46	60·2	48·2	53·8	+ 0·5	83	0	0	0·00	− 0·49	58·1	+ 28·0	48	+ 23
	Fort William	75	44	65·8	48·2	56·4	+ 2·9	101	0	0	0·00	− 0·88	96·8	+ 56·2	80	+ 46
1. SCOTLAND, E.	Nairn	68	37	58·6	44·7	51·2	− 2·1	64	0	1	0·01	− 0·39	*	*	*	*
	Aberdeen	62	39	55·9	45·9	50·6	− 1·8	60	0	0	0·00	− 0·43	51·5	+ 8·1	42	+ 7
	Braemar Ꞩ	71	41	61·5	43·7	52·0	+ 1·5	70	0	0	0·00	− 0·52	*	*	*	*
	Ochtertyre Ꞩ	78	41	67·1	43·6	54·5	+ 0·5	88	0	0	0·00	− 0·63	*	*	*	*
	Leith Ꞩ	61	46	55·6	47·1	51·1	− 3·1	64	0	1	0·01	− 0·41	*	*	*	*
	Marchmont Ꞩ	69	41	55·3	44·1	49·3	− 2·8	51	0	0	0·00	− 0·57	27·6	− 13·7	23	− 11
2. ENGLAND, N.E.	Alnwick Castle	60	45	54·9	46·3	50·3	− 1·8	58	0	0	0·00	− 0·45	*	*	*	*
	Durham	67	46	55·4	46·2	50·5	− 3·4	60	0	0	0·00	− 0·44	16·6	− 22·4	14	− 19
	Shields	61	48	58·0	48·6	53·0	0·0	77	0	0	0·00	− 0·41	*	*	*	*
	Scarborough ℳ	58	45	54·1	46·5	50·0	− 3·9	56	0	3	0·12	− 0·33	13·0	—	11	—
	Spurn Head	59	45	55·7	47·9	51·5	− 2·7	67	0	1	0·09	− 0·27	*	*	*	*
	Lincoln	67	41	61·2	46·4	53·3	− 2·6	79	0	2	0·06	− 0·41	*	*	*	*
	Fulbeck (Lincolnshire)	71	44	63·5	46·7	54·5	− 1·4	88	0	1	0·05	− 0·40	44·9	—	39	—
3. ENGLAND, E.	Hillington ℳ	61	46	59·2	47·8	53·1	− 2·4	78	0	1	0·05	− 0·41	31·0	− 14·5	27	− 13
	Yarmouth	58	48	56·1	49·9	52·8	− 1·7	76	0	2	0·12	− 0·31	*	*	*	*
	Geldeston	62	46	58·0	48·0	52·7	− 2·4	75	0	2	0·21	− 0·19	26·2	− 23·0	23	− 20
	Cambridge	68	46	61·5	48·4	54·5	− 2·2	88	0	2	0·23	− 0·23	46·6	+ 0·7	41	+ 1
	Felixstowe	66	46	60·8	48·7	54·3	− 0·4	86	0	2	0·19	—	54·3†	—	48†	—
	Clacton-on-Sea	67	46	61·4	49·1	54·8	0·0	90	0	2	0·08	—	60·9†	—	53†	—
	Rothamsted	68	45	62·4	46·8	54·1	− 1·4	85	0	1	0·10	− 0·37	44·8	+ 0·5	39	0
	Shoeburyness	68	46	62·0	49·0	55·1	− 0·5	92	0	1	0·25	− 0·09	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	69	43	57·8	45·1	51·0	− 2·2	63	0	1	0·20	− 0·40	20·3	—	17	—
	Bawtry (Hesley Hall)	70	—	63·4	—	—	—	—	—	1	0·12	− 0·36	*	*	*	*
	Nottingham	69	44	61·7	46·9	53·8	− 2·0	83	0	2	0·08	− 0·42	41·6	—	36	—
	Colly Weston (Stamford)	68	44	63·0	46·7	54·3	− 1·8	86	0	2	0·02	− 0·42	*	*	*	*
	Cheadle ℳ	68	41	61·5	45·2	52·8	− 1·0	76	0	2	0·10	− 0·54	*	*	*	*
	Birmingham (Edgbaston)	68	44	61·6	46·6	53·6	− 1·5	81	0	1	0·05	− 0·52	36·7	—	32	—
	Shrewsbury	71	42	63·1	47·4	54·7	− 1·1	89	0	1	0·20	—	*	*	*	*
	Hereford ℳ	75	42	65·3	44·8	54·3	− 2·1	86	0	1	0·14	− 0·32	*	*	*	*
	Cirencester	69	42	62·5	45·4	53·4	− 1·7	80	0	1	0·12	− 0·38	44·7	− 1·3	39	− 1
	Oxford	69	46	63·4	48·1	55·2	− 1·5	92	0	1	0·18	− 0·28	38·2	− 7·1	34	− 6
5. ENGLAND, S.	London	74	47	66·1	49·1	57·0	− 0·8	105	0	1	0·09	− 0·35	39·6‡	− 2·0‡	35‡	− 2‡
	Wisley	70	47	64·1	48·7	55·9	− 2·1	97	0	1	0·11	—	35·9	—	32	—
	Swarraton (Alresford) ℳ	69	43	62·7	47·0	54·3	− 0·5	86	0	3	0·07	− 0·38	*	*	*	*
	Tunbridge Wells ℳ	68	45	63·2	47·2	54·6	− 0·8	88	0	2	0·24	—	41·5	—	37	—
	Dungeness	64	47	60·3	49·9	54·7	− 1·4	89	0	2	0·07	− 0·23	47·3	—	42	—
	Hastings (St. Leonards)	69	46	62·4	48·4	54·9	− 1·2	90	0	2	0·31	− 0·06	44·9	− 8·1	40	− 7
	Southampton	73	43	65·5	48·9	56·6	− 1·3	102	0	1	0·23	− 0·20	38·6	− 11·1	34	− 10
	Portland Bill	65	44	62·1	48·4	54·8	− 0·7	90	0	1	0·10	—	*	*	*	*
	Shaftesbury ℳ	68	42	61·4	44·7	52·5	− 2·4	74	0	1	0·14	− 0·36	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	73	45	69·6	47·1	57·6	+ 3·5	109	0	0	0·00	− 0·92	*	*	*	*
	Glasgow	76	46	62·3	47·7	54·5	+ 0·5	88	0	0	0·00	− 0·62	63·1	+ 26·4	53	+ 22
	Cally Ꞩ	73	43	68·9	45·2	56·2	+ 2·6	99	0	1	0·01	− 0·69	*	*	*	*
	Aspatria	70	40	61·6	44·4	52·4	− 1·0	73	0	1	0·05	—	75·9	—	64	—
	Douglas (Isle of Man)	68	44	61·0	47·7	53·9	+ 0·2	83	0	1	0·23	− 0·30	72·0	+ 20·7	62	+ 18
7. ENGLAND, N.W.	Newton Rigg	76	37	62·9	42·5	52·0	− 0·9	70	0	1	0·24	—	72·7	—	62	—
	Stonyhurst	72	45	60·9	46·6	53·3	− 1·4	79	0	1	0·07	− 0·64	65·8	+ 20·9	56	+ 18
	Blackpool ℳ	66	40	63·3	43·9	52·9	− 2·3	76	0	1	0·13	− 0·35	72·9	+ 28·1	62	+ 24
	Manchester (Prestwich)	72	45	62·2	45·9	53·5	− 1·2	81	0	1	0·11	− 0·54	60·3	—	52	—
	Liverpool Obsy. (Bidston)	71	45	63·7	46·7	54·6	− 1·4	88	0	1	0·50	+ 0·04	45·3	—	39	—
	Chester (Hawarden Bridge)	71	45	64·8	46·8	55·2	− 1·2	92	0	1	0·32	—	*	*	*	*
	Llandudno ℳ	68	48	61·7	49·3	55·1	− 1·0	92	0	1	0·40	− 0·04	58·3	+ 12·3	50	+ 11
	Holyhead	70	48	60·4	49·3	54·5	− 0·6	88	0	2	0·49	+ 0·04	*	*	*	*
	Bettws-y-Coed	75	42	64·4	45·9	54·5	− 0·3	88	0	1	0·19	—	48·6	—	42	—
8. ENGLAND, S.W.	Pembroke	67	45	61·7	48·7	54·8	+ 0·3	90	0	0	0·00	− 0·45	72·5	+ 19·0	64	+ 17
	Clifton	71	46	65·2	47·9	56·0	− 0·1	98	0	2	0·07	− 0·44	*	*	*	*
	Bath	69	45	64·3	47·1	55·1	− 1·7	92	0	2	0·03	− 0·47	48·3	—	42	—
	Arlington (N. Devon)	68	40	64·3	46·1	54·6	+ 0·3	88	0	0	0·00	− 0·68	*	*	*	*
	Cullompton ℳ	71	38	66·7	47·3	56·3	− 0·1	100	0	1	0·09	− 0·43	48·1	+ 1·4	43	+ 1
	Falmouth	64	46	60·5	51·5	55·7	− 0·6	96	0	4	0·28	− 0·28	37·2	− 17·2	33	− 15
	Plymouth	70	42	64·1	50·1	56·6	− 0·7	102	0	2	0·18	− 0·28	47·2	− 3·0	42	3
9. IRELAND, N.	Malin Head	60	46	57·4	47·3	52·0	− 1·5	70	0	1	0·02	− 0·49	*	*	*	*
	Edenfel (Omagh)	78	42	68·6	48·9	58·1	+ 4·6	113	0	2	0·37	− 0·26	*	*	*	*
	Blacksod Point	72	50	65·3	51·4	57·9	+ 3·3	111	0	3	0·32	− 0·31	*	*	*	*
	Markree Castle	74	41	66·4	47·8	56·5	+ 3·0	102	0	2	0·35	− 0·36	63·1	+ 23·2	54	+ 20
	Armagh	71	45	63·4	47·2	54·7	+ 0·3	89	0	2	0·43	− 0·10	61·9	+ 21·5	53	+ 18
	Donaghadee	61	44	58·3	48·1	52·8	− 1·3	76	0	2	0·33	− 0·17	*	*	*	*
10. IRELAND, S.	Dublin	68	50	62·0	50·9	56·1	− 0·2	99	0	2	0·46	+ 0·01	67·2	+ 21·0	58	+ 18
	Birr Castle	75	44	67·6	48·0	57·1	+ 2·0	106	0	1	0·04	− 0·51	64·3	+ 24·1	55	+ 21
	Kilkenny	72	44	65·6	48·1	56·2	+ 0·8	99	0	2	0·07	− 0·47	*	*	*	*
	Waterford	72	46	66·6	49·3	57·4	+ 2·3	108	0	2	0·06	− 0·50	*	*	*	*
	Roche's Point	65	47	61·1	50·1	55·2	− 1·1	92	0	3	0·22	− 0·48	*	*	*	*
	Valencia	72	46	66·4	47·9	56·5	+ 1·1	102	0	1	0·13	− 0·65	76·6	+ 30·2	67	+ 27
	Killarney	77	43	72·9	46·0	58·5	+ 3·5	116	0	0	0·00	− 0·66	*	*	*	*
	Foynes	76	45	69·8	47·0	57·6	+ 2·4	109	0	2	0·08	− 0·49	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	50	60·7	51·6	55·8	− 0·3	97	0	3	0·18	− 0·23	40·0	− 17·1	36	− 15
	Jersey	69	49	62·1	52·4	56·9	− 0·5	104	0	4	0·25	− 0·19	18·0	− 39·0	16	− 35

Stations Marked ℳ are in connection with the Royal Meteorological Society, and those marked Ꞩ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

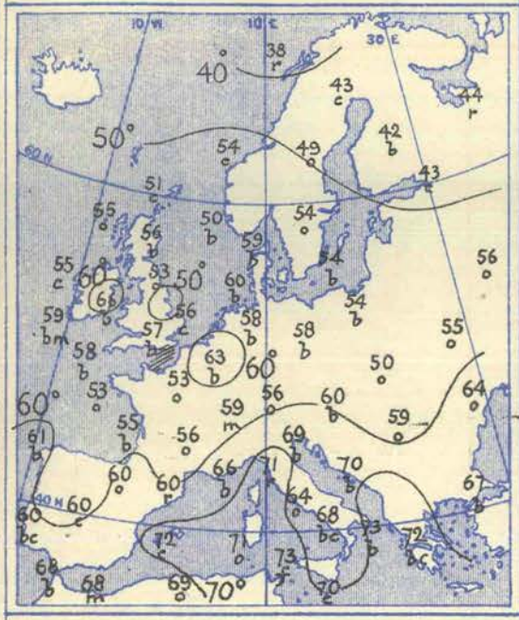
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 31 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

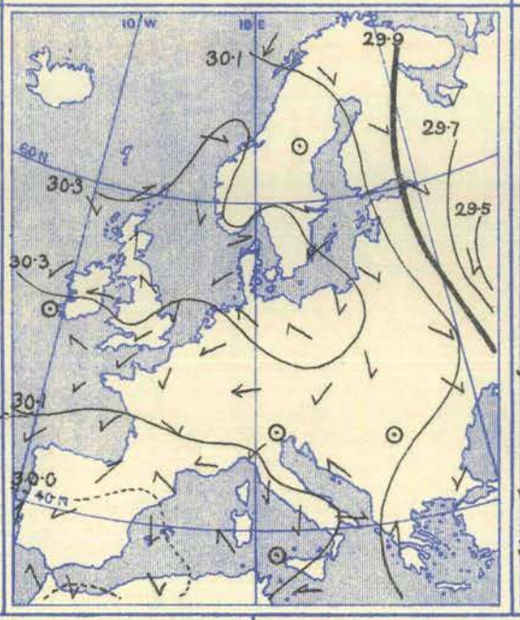
Note.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 5th June, 1904.

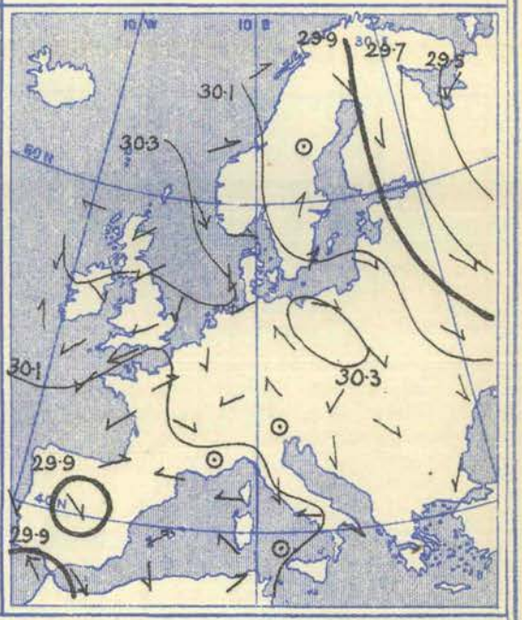
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright as a whole, but dull in several parts of France, Russia, and the north of Scandinavia. Rain falling at Archangel, Bodö, and Perpignan. Thunderstorms occurring later at many French stations, and 0·9 in. of rain falling at Rochefort. Some rain experienced in a few Scandinavian and Italian localities, and rain and snow (0·5 in.) at Moscow.

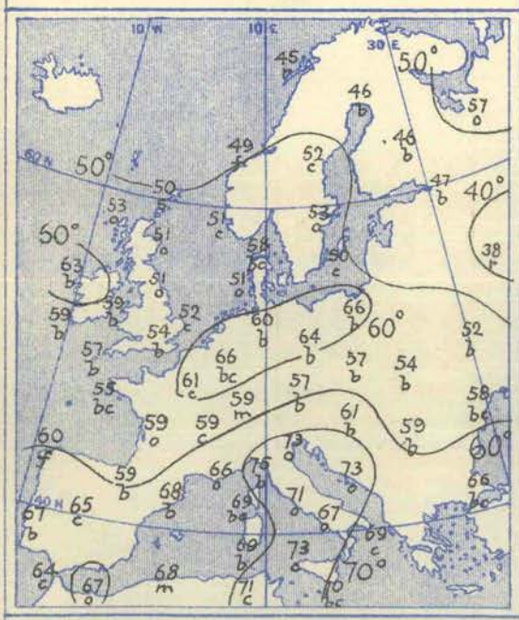
Temperature changed rather irregularly, but fallen in most parts of Russia, central Europe, and the United Kingdom. Morning readings highest, 73° at Palermo, 72° at Patras, Palma, and Oporto, and 69° at Trieste. Lowest, 38° at Bodö, 43° at Moscow, 47° at Breslau and Warsaw, 49° at Nottingham, and 53° at Paris. Rising during day to 73° in London and at Stockholm, 75° at Parsonstown, and to 80° or above in the south of Europe and Tunis. Highest values, 85° at Brindisi, and 86° at Tunis and Sfax.

Wind at 8 a.m. light to strong from some Northerly point over Russia, Finland, and the north of Scandinavia. Light and variable over the Mediterranean and southern Europe, and anticyclonic elsewhere. Very little change later except some decrease in the strength of the Northerly wind in the far north.

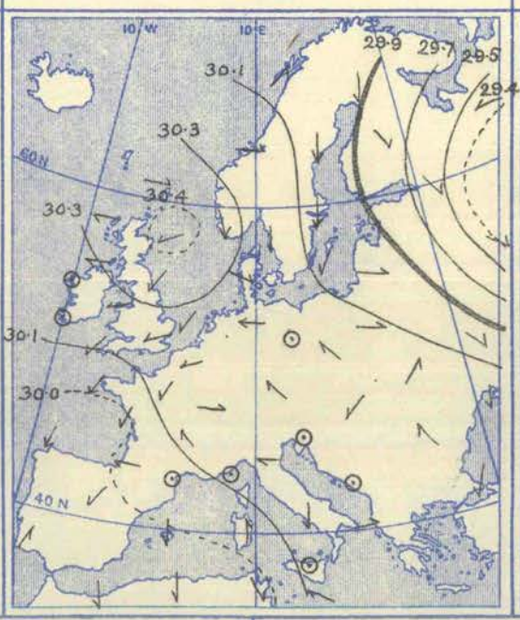
Barometer at 8 a.m. ranging from above 30·3 ins. in an anticyclone covering the greater part of our Islands, the North Sea, Denmark, the Baltic, and Germany, to less than 30·0 ins. over all the more southern parts of the Spanish Peninsula, and to 29·5 ins. in a depression over central Russia. Very little change taking place in the general distribution of pressure; Russian disturbance moving northwards.

Monday, 6th June, 1904.

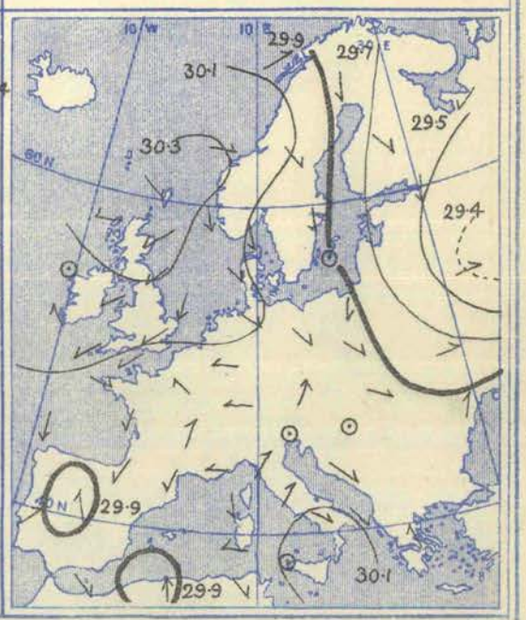
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in several parts of the United Kingdom and the central and south-eastern countries, but cloudy or overcast in most other regions. Drizzling rain falling on our own north-east coasts, and heavier rain at Moscow, Hangö, and Bodö; fog prevailing at Christiansund and Corunna. Thunderstorms experienced during the day throughout France and on our most southern and south-eastern coasts, but accompanying rainfall generally slight. A thunderstorm, with 1·2 ins. of rain, occurring at Madrid.

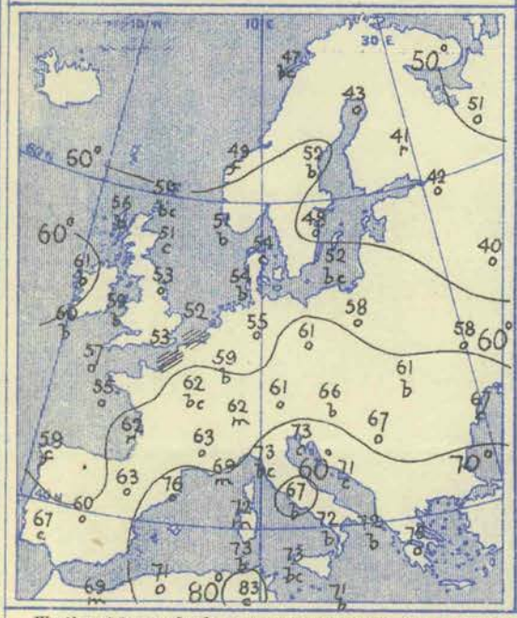
Temperature risen over central and most northern regions, changed irregularly elsewhere. Readings in morning ranging from 77° at Palma, and above 70° at a few other southern stations, to 66° at Neu-Fahrwasser, 57° at Archangel, 49° in central England, 45° at Bodö, and to 38° at Moscow. Rising during day to 90° at Aumale, 88° at Madrid, 86° at Florence and Patras, and to about 80° in many southern localities. Maximum only 51° at Scarborough, and 53° at Leith and Lowestoft, but as high as 74° in London, and above 70° at some Welsh and Irish stations.

Wind in morning light to moderate or fresh between North and North-West over Scandinavia and Russia, and from the North-Eastward over our Islands and France. Light variable airs prevalent over the Mediterranean and southern countries. Very little change taking place later.

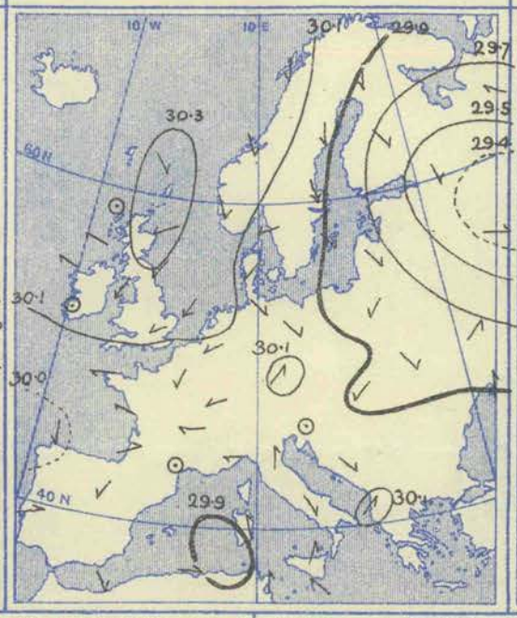
Barometer at 8 a.m. highest, 30·3 ins. to 30·4 ins. in an anticyclone centred over the northern half of Great Britain and the North Sea. Lowest, 29·4 ins. and less in a large depression over northern Russia. Relatively high in a long band stretching from Denmark to the Black Sea, and low over the Bay of Biscay and the Peninsula. Pressure decreasing slowly later except in the north of Norway. Russian disturbance extending westwards, and band of relative high readings dispersing. Some shallow depressions appearing in the south-western part of our area.

Tuesday, 7th June, 1904.

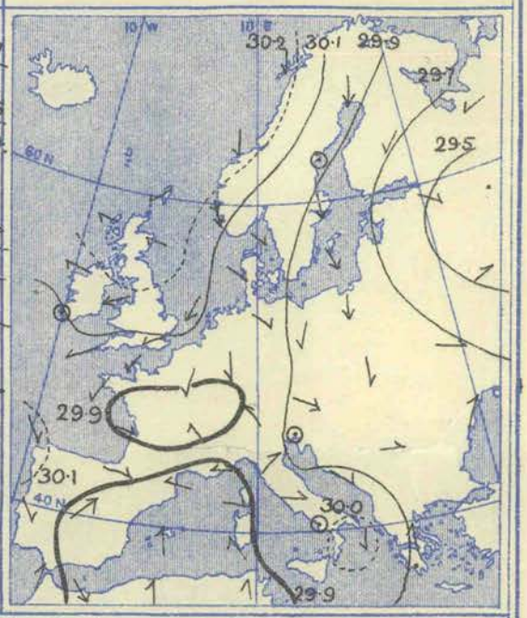
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast generally, but fine and bright in Ireland, the north of Scotland, the greater part of Scandinavia, and at various stations in southern Europe. Foggy at Coruna and Christiansund, and rainy at Rochefort and Kuopio. Violent thunderstorms occurred in France later, especially at Mamers and Chateaudun; at the latter place 3·5 ins. of rain fell in an hour and a quarter. A thunderstorm and 0·6 in. of rain experienced at Madrid.

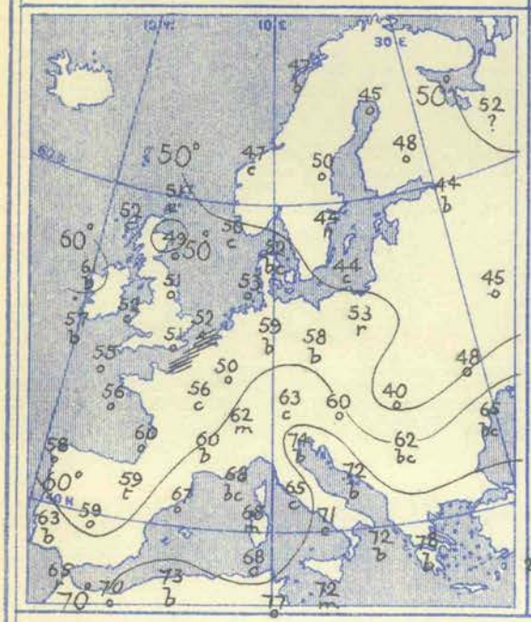
Temperature risen over the southern half of Russia, Austria, Algeria, and the south of France, fallen in most other regions. Morning readings as low as 40° at Moscow, 42° at St. Petersburg, and no higher than 50° at Nottingham and Bath, but increasing to 56° at Stornoway, about 60° in the west of Ireland, 67° at Frankfurt and Odessa, and to above 70° at several stations on the shores of the Mediterranean and Adriatic. Highest values, 75° at Patras, 79° at Aumale, and 83° at La Calle. Rising later to 70° at Blacksod Point, 80° or above at some German and Austrian stations, and also in most localities of southern Europe.

Wind in morning North-Easterly to Easterly over our Islands and France, and fresh or strong on our south-east and south coasts. Moderate to strong from the Northward over the north of Europe, and light from North-West or West over the central countries and southern Russia. Light and variable over the Mediterranean. Very little modification occurring later.

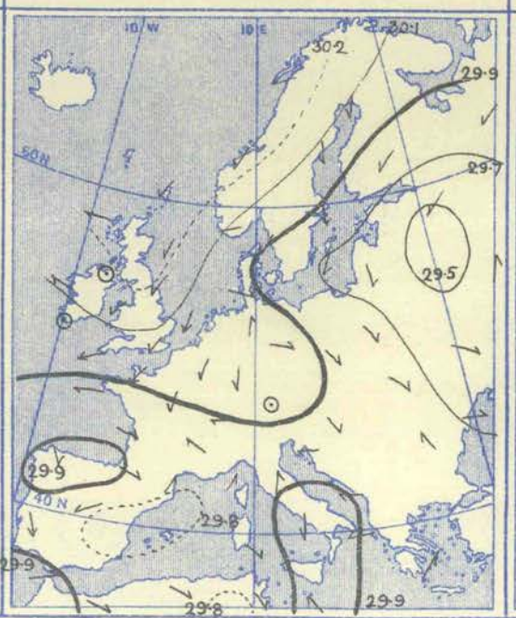
Barometer at 8 a.m. ranging from above 30·3 ins. in an anticyclone having its centre over Scotland, to 30·0 ins. and less in an irregularly shaped area covering the major portion of the Bay of Biscay, the Peninsula, and the western half of the Mediterranean, and to about 29·3 ins. in a depression over the northern part of central Russia. No change in the general distribution later, but a shallow depression forming over France and pressure decreasing somewhat in almost all parts of our area.

Wednesday, 8th June, 1904.

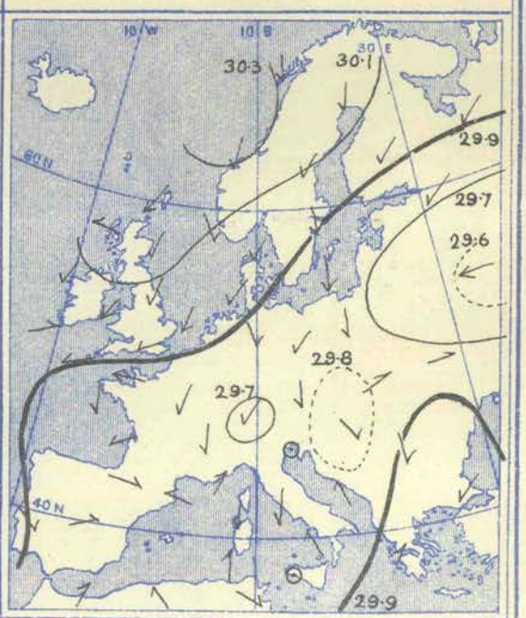
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. overcast or cloudy as a whole, but bright at some stations in the centre and south of Europe, as well as in the north and west of Ireland. Rain falling in the south of Sweden, at Neu-Fahrwasser, San Fernando, and La Calle, and thunder prevailing at Biarritz. Thunder heard at Scilly later, and severe thunderstorms occurring in many parts of France; 0·8 in. of rain at Lyons and Brest, and 1·6 ins. at Nantes and Limoges. Thunderstorms and rain also experienced in Algeria, and 1·8 ins. of rain at Kharkov.

Temperature fallen generally, but risen in Finland, the north of Russia, and Greece. Morning readings ranging from 78° at Patras and above 70° at several other southern stations, to about 50° in several parts of Great Britain, and to 44° at Stockholm and St. Petersburg. Rising during day to above 90° in Tunis, 88° at Pesaro, 87° at Gap and Florence, and 86° in Greece, but maxima rather low over the northern countries, and no higher than 68° at Biarritz. Below 60° in many parts of Britain, but 68° in the west of Ireland.

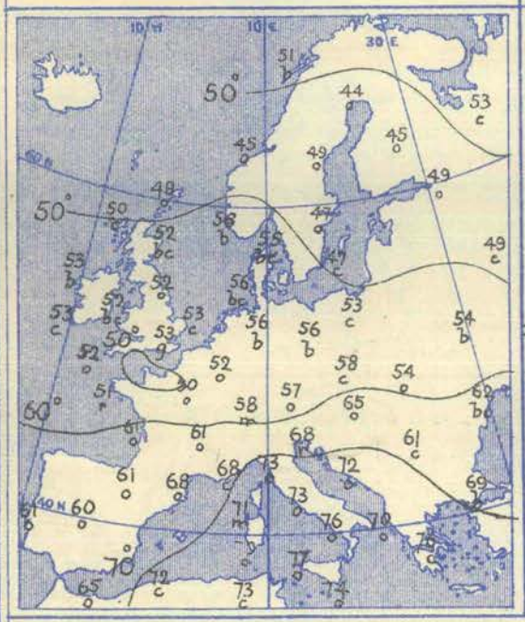
Wind at 8 a.m. light and variable over all the southern countries and the Mediterranean; still North-Easterly to Northerly over Scandinavia, the United Kingdom, and the north of France, and moderate to fresh or strong in force. A feeble cyclonic circulation prevailing over Russia. No general change later, but wind becoming more Easterly over the English Channel.

Barometer fallen except in the far north and north-east. Anticyclone moving northwards in the north-western portion of our area, and an ill-defined low pressure system spreading over France from the southward. Morning readings highest, above 30·2 ins. over Scotland and the west of Norway, and lowest, about 29·5 ins. in a depression over the west of Russia. Latter system travelling eastwards during day, and southern low pressure area continuing to extend northwards.

Thursday, 9th June, 1904.

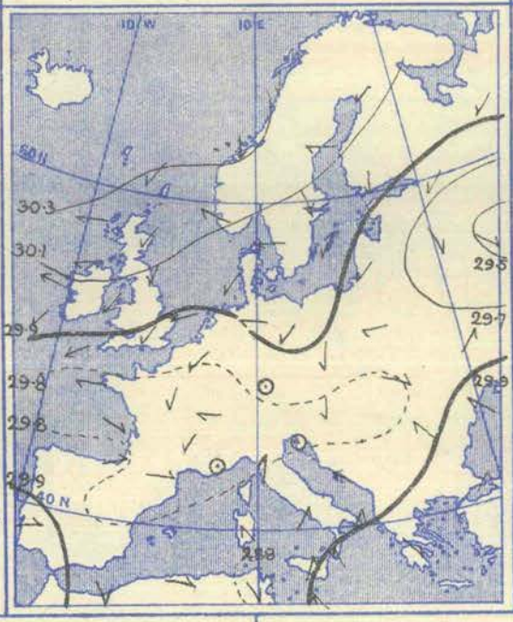
Temperature and Weather.

8 a.m.

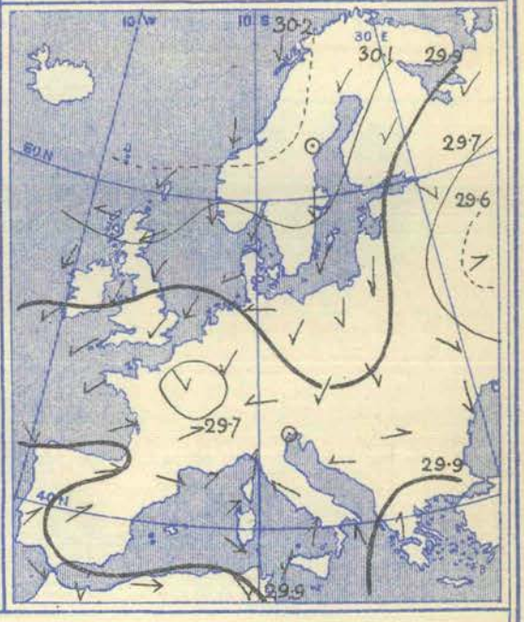


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. fine and bright in a few localities, but cloudy or overcast as a whole. Rainy at Cape Sicié, Limoges, and in Brittainy. Slight rain falling later at some of our own stations, and considerable amounts in France, the Netherlands, the south of Russia, and the north of Italy. Thunderstorms occurring at La Calle and in the south of France.

Temperature changed irregularly. Readings at 8 a.m. ranging from 77° at Palermo, 76° at Athens and Naples, and but a little lower at some other southern stations, to about 50° in several parts of the United Kingdom and at Paris, to 47° in the south-east of Sweden, 45° at Christiansund, and to 44° at Bodö. Maxima below 60° in most parts of our Islands and also at Paris, but thermometer rising to 80° or higher in many parts of southern Europe, and to 90° in places. Highest value, 91° at Brindisi and Patras.

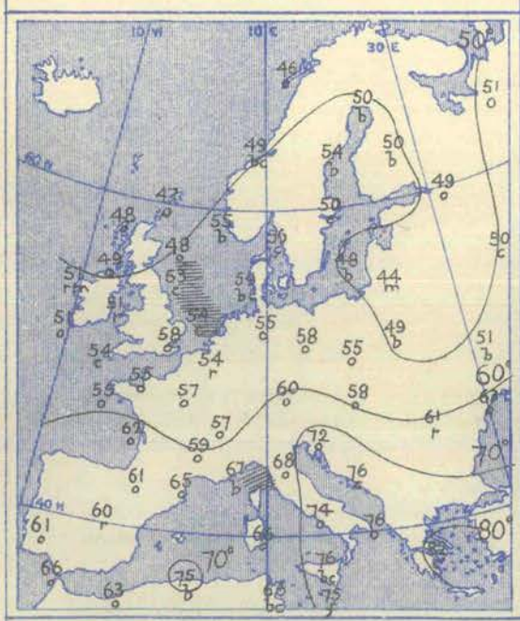
Wind at 8 a.m. moderate to fresh from North or North-East over the northern half of our area, and mostly light and variable in the south. A distinct cyclonic circulation setting in over France and its neighbourhood during day, but little change taking place as a whole.

Barometer at 8 a.m. ranging from above 30·3 ins. in an anticyclone off the west of Norway to below 29·8 ins. in a large and irregularly shaped area with several minima lying over France and central Europe, and to about 29·5 ins. in a depression over central Russia. No change in the general distribution taking place later, but high pressure system giving way somewhat, and some modification taking place in the form of the low pressure area.

Friday, 10th June, 1904.

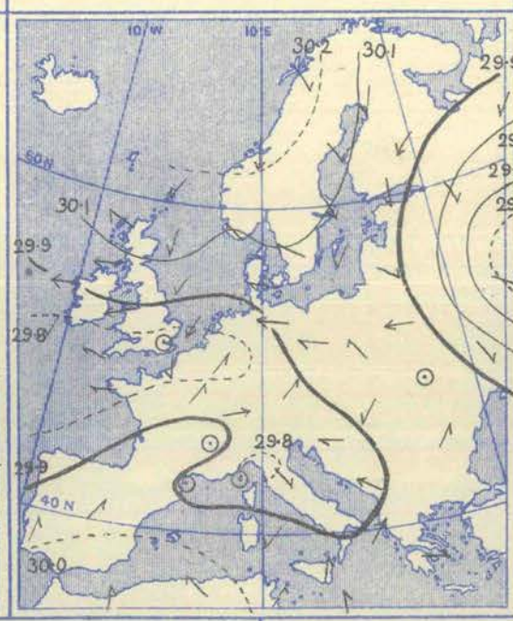
Temperature and Weather.

8 a.m.

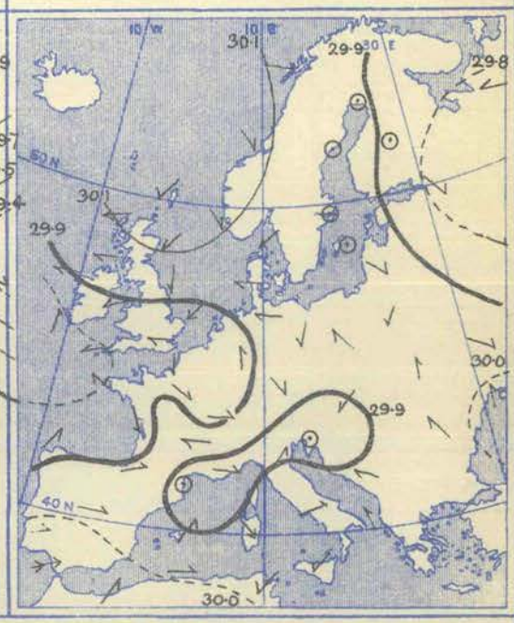


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. fine generally over Scandinavia, Finland, Galicia, southern Russia, and in many parts of North Africa; mostly dull and overcast elsewhere, with rain locally in our Islands and on the Continent, fog at Malta, Sanguinaires, and Cape Gris Nez. Slight rain falling in the course of the day in various parts of England and Ireland, large amounts at some of the foreign stations, 0·9 in. at Biarritz, 1 in. at Trieste, 2·1 ins. at Perpignan, and 2·6 ins. at Florence. Thunder reported at Scilly, thunderstorms in the south-west and south of France and in the north of Spain.

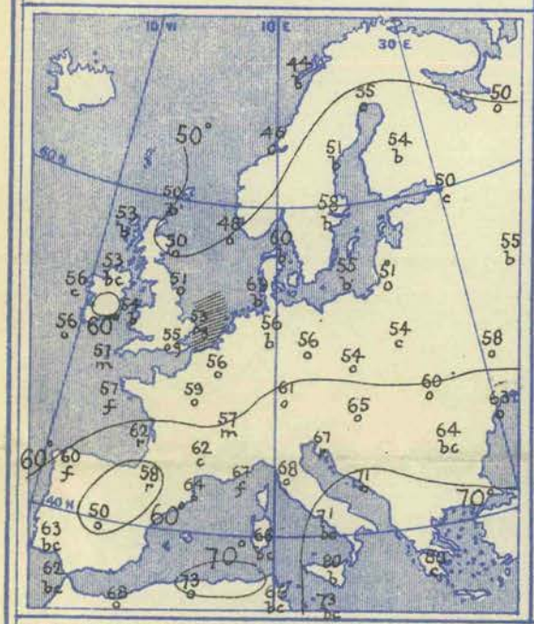
Temperature in morning highest, 82° at Athens, 78° at Patras, and 76° at Palermo, Brindisi, and Lesina. Above 60° all over southern Europe and North Africa. Lowest, 44° at Memel, 46° at Bodö, 47° at Sumburgh Head, and 48° at Aberdeen, Nairn, Wick, and Stornoway. Rising in the afternoon to 93° at Laghouat, 91° at Biskra, 90° at Sanguinaires, and 88° at Brindisi, but not higher than 52° at Memel and Christiansund, 51° at Leith, 50° at Sumburgh Head and Wisby, and 46° at Bodö. Very few of the maxima in our Islands as high as 65°.

Wind at 8 a.m. mainly from between North and East over our Islands and the Continent northward of the 50th parallel, more variable elsewhere, but largely from between West and South. As a rule, moderate to very light in force, but blowing fresh or strong in a few places, a moderate gale at Lesina. By evening the direction becoming rather more variable, and calms reported in many localities, but a moderate North-Westerly gale at Cagliari, and a fresh South-Westerly gale at San Fernando.

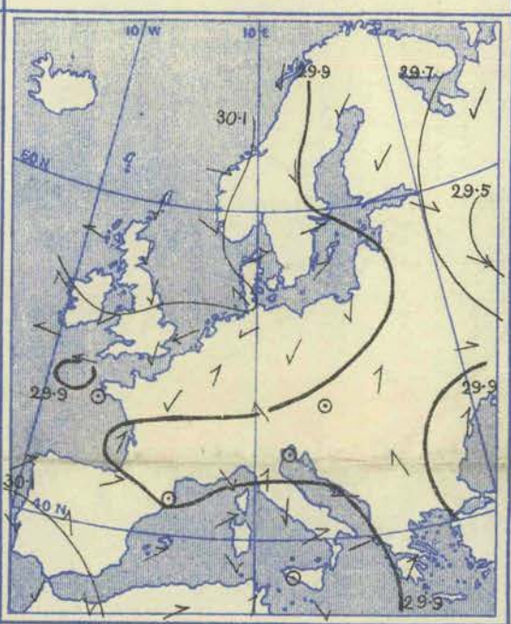
Barometer in morning ranging from a little above 30·2 ins. in an anticyclone off the west of Norway, and slightly above 30 ins. in another over Algeria and the south of Spain, to below 29·8 ins. in a shallow trough of low pressure extending eastward from the Atlantic up the English Channel to western Germany, and to below 29·4 ins. in a depression over central Russia. Changes registered during the day very slight, the depression along the Channel showing signs of dispersing slowly.

Saturday, 11th June, 1904.

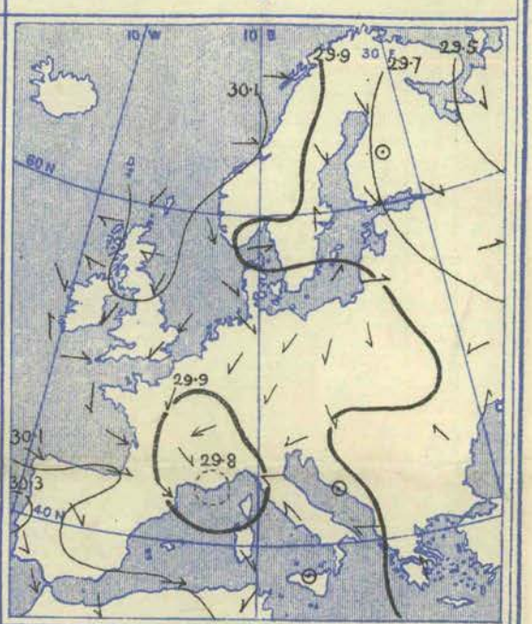
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over England, Scotland, and the western and central parts of the Continent generally, with rain in the west of France. Fine in most other parts of Europe, but dull and rainy at some of the Austrian stations. Slight rain falling later in several parts of Ireland and England, and considerable quantities in the west and south of France and in northern Italy—more than an inch in several places, and as much as 3·5 ins. at Mont Aigoual. Thunderstorms occurring at Lyons and Clermont.

Temperature risen generally, but fallen in Spain and Italy and also in the west of Norway. Morning readings highest, 80° at Palermo and Athens, 77° at Patras and La Calle, and 75° at Sfax; above 65° in many parts of southern and south-eastern Europe. Lowest, 44° at Bodö, 45° at Christiansund, and 48° at Skudesnaes and Wick, below 55° at most stations in the northern, eastern, and central parts of Great Britain. Rising during day to between 60° and 65° in many parts of England and Ireland, to 67° at Blacksod Point and Jersey, and to 70° at Parsonstown. Exceeding 70° over southern Europe generally, and exceeding 80° in Italy, the highest readings reported being 85° at Leghorn and 84° at Cagliari.

Wind light to fresh from the Eastward or North-Eastward over the greater part of the United Kingdom, and also over the northern parts of France and Germany; variable in the south of France, Westerly or South-Westerly over Italy and the Mediterranean. Northerly or North-Easterly over the northern parts of Scandinavia and Russia; Westerly over the southern parts of those countries. Subsequently becoming very variable in Ireland; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the extreme south of Spain and the neighbouring parts of the Mediterranean; 30·1 ins. and upwards in another system covering the northern half of the United Kingdom and the west of Norway. Lowest, 29·5 ins. and less in a large depression over central Russia; 29·9 ins. and less in a trough extending westwards from the main disturbance across Austria, northern Italy, and the central and southern parts of France. Anticyclones both extending later, the former in a northerly, and the latter in a southerly direction. Low pressure trough gradually filling up.

IV.—GENERAL NOTES, etc.

The week under review witnessed the gradual dispersal and withdrawal to the northward of the large anticyclone previously existing over western and central Europe. The high pressure system was attacked on two sides—in the first place by an extensive and rather deep cyclonic area which advanced over Russia from the northward, and which afterwards spread westward (causing very strong winds from the North or North-West over Sweden and the Baltic); and in the second place by a much shallower, and very complex, depression which extended slowly northward over Spain and France, and eventually over our own southern regions. The latter system occasioned variable breezes, and a succession of thunderstorms and heavy rains, in France, the unsettled weather finally spreading over a considerable portion of the United Kingdom, and also over Austria and northern Italy. At many of the French stations the daily falls of rain were exceedingly heavy, the largest amounts reported being:—On Wednesday, 3·5 ins. at Chateaudun (collected in the space of an hour and a quarter); on Friday, 2·0 ins. at Perpignan, Florence having on the same day as much as 2·6 ins.; and on Saturday, 3·4 ins. on Mont Aigoual, one of the higher peaks of the Cevennes range.

In our Islands, where the wind was chiefly Easterly or North-Easterly, the weather was not materially affected by the Continental disturbances until Thursday, when rain set in over the whole of England and Ireland, the quantity being, singularly enough, largest at the north-western stations. At the close of the week the complex low pressure system was dispersing, and the anticyclone, which had drifted to the northward, was inclined to spread southward again.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 134.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNESS	43·3	+ 7·0	34	+ 6	SHEFFIELD	34·6	—	30	—	WESTBOURNE	57·9†	+ 7·9	51†	+ 7
STRATHPEFFER SPA	43·8	+ 5·8	36	+ 5	WORKSOP	35·2	- 2·3	30	- 2	VENTNOR HOSPITAL	48·9	+ 2·5	43	+ 2
EDINBURGH	30·0	- 5·3	25	- 4	THURCASTON	42·3	+ 1·6	37	+ 1	BOURNEMOUTH	40·3	—	36	—
COCKLE PARK	18·0	—	15	—	MARGATE	37·7	- 5·5	33	- 5	MARLBOROUGH	37·2	- 6·3	33	- 6
NEWCASTLE-ON-TYNE	15·9	—	13	—	BROADSTAIRS	36·6	—	32	—	SOUTHPORT	62·2	—	53	—
YORK	34·4	- 5·9	29	- 5	RAMSGATE	38·9	—	34	—	RHYL	49·9	—	43	—
SKEGNESS	26·8	—	23	—	EASTBOURNE	41·2	- 10·2	37	- 9	ABERDOVEY	63·8†	—	56†	—
CROMER	16·8	—	15	—	BRIGHTON	48·7	- 2·9	43	- 3	TENBY	75·5	+ 22·0	66	+ 19
LOWESTOFT	14·1	—	12	—	WORTHING	46·9	—	42	—	TORQUAY	52·4	- 2·4	46	- 2
DUNMOW	52·6	—	46	—	BOGNOR	47·2†	—	42†	—	NEWQUAY	40·4	- 11·7	36	- 10
										GUERNSEY	28·8†	- 30·2	26†	- 27

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

Reports received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending April 30th, 1904.	Marchmont	61	35	54·3	39·9	46·8	+ 2·1	42	6	4	0·21	- 0·32	38·9	+ 2·6	37	+ 3
,, ,, ,,	Bawtry	63	—	56·4	—	—	—	—	—	2	0·05	- 0·35	—	—	—	—
,, ,, May 7th, ,,	Lairg	52	34	46·9	37·1	41·7	- 2·8	14	21	7	0·65	+ 0·13	—	—	—	—
,, ,, ,, ,,	Bawtry	63	—	58·7	—	—	—	—	—	4	0·53	+ 0·12	—	—	—	—
,, ,, ,, 14th, ,,	Lairg	51	35	46·7	39·6	42·9	- 2·6	16	7	3	0·39	- 0·10	—	—	—	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 24. TWENTY-FOURTH WEEK, ENDING SATURDAY, JUNE 18TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 140.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	67	32	58·9	47·2	52·7	0 (average)	75	+ 3	0	− 1	565	− 31	477	− 72
	1. SCOTLAND, EAST	69	35	62·2	47·3	54·2	0 (average)	85	− 2	0	0	625	−115	585	− 7
	2. ENGLAND, N.E.	70	42	64·7	50·3	57·0	1 above	105	+10	0	0	754	− 1	431	− 59
	3. ENGLAND, EAST	74	39	66·2	51·9	58·6	2 above	116	+ 8	0	0	862	− 74	404	−131
	4. MIDLAND COUNTIES	69	43	64·8	49·8	56·8	0 (average)	104	− 4	0	0	819	−147	474	− 73
	5. ENGLAND, SOUTH	73	46	63·9	51·6	57·3	1 below	107	− 9	0	0	906	−137	345	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	73	40	60·3	49·5	54·6	1 below	88	− 5	0	0	702	−100	375	− 42
	7. ENGLAND, N.W.	69	41	62·3	51·5	56·5	0 (average)	102	+ 1	0	0	735	−122	386	− 13
	8. ENGLAND, S.W.	70	44	61·7	51·3	56·1	1 below	99	− 9	0	0	934	− 74	252	− 53
	9. IRELAND, NORTH	69	41	60·5	49·7	54·7	1 below	89	− 7	0	0	743	−150	337	− 20
	10. IRELAND SOUTH	70	42	62·1	51·3	56·3	0 (average)	100	− 5	0	0	954	−108	232	− 24
	— CHANNEL ISLANDS	67	49	62·8	53·5	57·9	0 (average)	111	− 3	0	0	1137	− 33	80	− 41

Rainfall.

	DISTRICTS. (See p. 140.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	17	11 more	112	+11	25·0	+ 4·6
	1. SCOTLAND, EAST	5	6	1 more	98	+12	12·9	+ 0·6
	2. ENGLAND, N.E.	3	2	2 less	87	+ 7	9·3	− 0·4
	3. ENGLAND, EAST	3	3	2 less	85	+ 3	9·4	+ 0·1
	4. MIDLAND COUNTIES	3	3	2 less	95*	+18	11·7	+ 0·7
	5. ENGLAND, SOUTH	3	3	1 less	95	+19	13·6	+ 2·5
Principal Grazing Districts.	6. SCOTLAND, WEST	5	12	5 more	103	+15	23·4	+ 3·1
	7. ENGLAND, N.W.	5	6	0 (average)	98	+15	15·1	+ 2·2
	8. ENGLAND, S.W.	4	8	3 more	100	+15	18·2	+ 3·0
	9. IRELAND, NORTH	6	11	5 more	117	+16	17·0	+ 2·6
	10. IRELAND, SOUTH	5	13	7 more	109	+18	19·2	+ 2·2
	— CHANNEL ISLANDS	5	6	2 more	114	+25	18·0	+ 5·1

Bright Sunshine.

	DISTRICTS. (See p. 140.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	26	−11	21	− 9	577	− 8	28	0
	1. SCOTLAND, EAST	47	+ 2	38	+ 2	582	− 62	28	− 3
	2. ENGLAND, N.E.	43	− 2	36	− 1	583	− 99	28	− 5
	3. ENGLAND, EAST	50	0	43	0	636	−123	31	− 6
	4. MIDLAND COUNTIES	41	− 2	35	− 1	551	− 94	27	− 5
	5. ENGLAND, SOUTH	45	− 3	40	− 2	624	−108	30	− 5
Principal Grazing Districts.	6. SCOTLAND, WEST	31	−15	26	−12	578	− 88	28	− 4
	7. ENGLAND, N.W.	40	− 3	34	− 2	602	− 38	29	− 2
	8. ENGLAND, S.W.	34	−18	30	−16	631	−149	30	− 7
	9. IRELAND, NORTH	27	−13	23	−11	588	− 59	28	− 3
	10. IRELAND, SOUTH	32	−12	28	−10	634	− 90	31	− 4
	— CHANNEL ISLANDS	54	− 4	48	− 4	743	−146	36	− 7

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather was of an unsettled character generally, especially in the western and northern parts of the Kingdom, where rain was frequent and occasionally heavy. Thunder and lightning occurred in the extreme south of England on Friday, and in a few isolated parts of Great Britain between Monday and Wednesday.

Temperature differed but little from the mean, the only district showing any material divergence being England E., where there was an excess of 2°. Highest readings were registered at various times in the different districts, but mostly during the earlier half of the week. They were very moderate for the time of year, the only districts in which the thermometer exceeded 70° being England E. and S. and Scotland W.; the highest temperature reported was 74° at Hillington and Geldeston. Lowest readings also occurred at various times. In England S. the thermometer did not fall below 46°, and in the Channel Islands it only went to 49°; in Scotland E. and England E. it fell below 40°, and in Scotland N. it went to 32°, the frost in that district occurring early on Sunday morning.

Rainfall was in excess of the mean in most of the western and northern districts, the total amount in the Irish districts being about twice, and in Scotland N. nearly three times as much as the average. Over the eastern, central, and southern parts of England the amount was less than the mean.

Bright Sunshine was deficient in all districts excepting Scotland E. and England E.—largely so in Ireland, the west of Scotland, and the south-west of England. The percentage of the possible duration ranged from 48 in the Channel Islands, 43 in England E., and 40 in England S., to 23 in Ireland N., and to 21 in Scotland N.

Barometer and Wind. At the beginning of the week an anticyclonic ridge extended over Great Britain from the Spanish Peninsula, the wind being Southerly or South-Easterly in all our more western and northern districts, but Northerly in the south and east. Later on the high pressure system moved away to the north-eastward, while depressions of considerable intensity for the time of year skirted our western and northern coasts, and occasioned strong winds or gales from the Southward or South-Westward over nearly the whole Kingdom. At the close of the week these disturbances were travelling away to the north-eastward, the barometer was rising generally, and the wind in these Islands was moderating and veering to the Westward.

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II.—DATA from which the SUMMARY on page 139 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	59	41	55·0	46·0	50·2	+ 0·7	57	0	6	0·77	+ 0·33	*	*	*	*
	Stornoway	66	42	58·4	48·4	53·1	+ 1·0	78	0	7	1·25	+ 0·70	20·4	- 22·2	16	- 18
	Wick	66	32	60·9	45·4	52·6	+ 0·6	74	0	4	0·34	- 0·06	*	*	*	*
	Lairg Ⓢ	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Glencarron Ⓢ	66	40	58·5	46·2	51·9	- 1·5	69	0	7	3·70	+ 2·56	*	*	*	*
	Fort Augustus Ⓢ	67	39	60·4	47·1	53·3	- 1·2	79	0	7	1·43	+ 0·93	21·7	- 8·7	18	- 7
	Fort William	68	45	60·4	50·2	54·9	+ 0·2	90	0	7	2·94	+ 2·03	19·4	- 21·6	16	- 18
1. SCOTLAND, E.	Nairn	68	35	63·9	46·9	54·8	+ 0·1	90	0	4	0·30	- 0·11	*	*	*	*
	Aberdeen	67	38	62·3	47·7	54·5	+ 0·6	88	0	5	0·31	- 0·12	58·7	+ 14·9	48	+ 12
	Braemar Ⓢ	66	42	60·4	45·8	52·6	+ 0·4	74	0	4	0·84	+ 0·30	*	*	*	*
	Ochtertyre Ⓢ	69	42	63·0	47·7	54·8	- 0·9	90	0	5	1·43	+ 0·77	*	*	*	*
	Leith	66	44	62·4	49·0	55·2	- 0·4	92	0	7	0·47	+ 0·03	*	*	*	*
	Marchmont Ⓢ	64	43	61·1	46·4	53·2	- 0·4	78	0	5	0·48	- 0·10	34·8	- 6·7	29	- 6
2. ENGLAND, N.E.	Alnwick Castle	68	42	64·9	48·9	56·3	+ 2·5	100	0	3	0·33	- 0·11	*	*	*	*
	Durham	65	44	62·6	49·8	55·8	+ 0·4	97	0	3	0·23	- 0·21	46·9	+ 7·7	39	+ 6
	Shields	67	46	64·0	50·1	56·6	+ 2·2	102	0	4	0·26	- 0·16	*	*	*	*
	Scarborough Ⓜ	68	46	64·3	50.4	56·9	+ 1·5	104	0	4	0·22	- 0·25	35·4	—	30	—
	Spurn Head	69	47	64·9	51·9	58·0	+ 2·3	112	0	2	0·17	- 0·19	*	*	*	*
	Lincoln	70	47	66·4	50·4	57·8	+ 0·4	111	0	2	0·12	- 0·36	*	*	*	*
	Fulbeck (Lincolnshire)	68	46	66·0	50·6	57·8	+ 0·4	111	0	3	0·13	- 0·32	53·0	—	46	—
3. ENGLAND, E.	Hillington Ⓜ	74	45	68·5	50·5	58·9	+ 1·7	118	0	4	0·31	- 0·19	45·4	- 0·1	39	0
	Yarmouth	70	47	63·6	52·6	57·7	+ 1·5	110	0	1	0·21	- 0·23	*	*	*	*
	Geldeston	74	39	67·4	50·1	58·2	+ 1·4	113	0	2	0·23	- 0·17	49·6	+ 0·6	43	+ 1
	Cambridge	70	46	67·4	51·5	58·9	+ 0·6	118	0	2	0·27	- 0·21	46·1	+ 0·1	40	0
	Felixstowe	70	49	64·6	53·1	58·5	+ 2·1	116	0	4	0·32	—	50·6†	—	44†	—
	Clacton-on-Sea	68	49	65·0	52·6	58·4	+ 1·7	115	0	4	0·28	—	62·5†	—	54†	—
	Rothamsted	67	47	65·3	50·9	57·6	+ 0·6	109	0	3	0·36	- 0·12	42·9	- 1·7	37	- 2
	Shoeburyness	72	51	68·0	53·9	60·5	+ 2·9	130	0	1	0·16	- 0·20	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	67	44	62·7	49·3	55·5	+ 0·8	95	0	4	0·45	- 0·19	37·0	—	31	—
	Bawtry (Hesley Hall)	69	45	66·9	49·1	57·4	+ 0·2	108	0	1	0·08	- 0·48	*	*	*	*
	Nottingham	69	47	66·1	50·4	57·7	0·0	110	0	2	0·09	- 0·42	44·0	—	38	—
	Colly Weston (Stamford)	69	45	66·9	49·7	57·7	0·0	110	0	4	0·34	- 0·11	*	*	*	*
	Cheadle Ⓜ	64	45	62·6	48·6	55·1	- 0·2	92	0	4	0·29	- 0·37	*	*	*	*
	Birmingham (Edgbaston)	68	47	64·5	50·3	56·9	+ 0·2	104	0	1	0·26	- 0·34	37·1	—	32	—
	Shrewsbury	67	44	63·3	50·5	56·5	- 1·1	102	0	5	0·28	—	*	*	*	*
	Hereford Ⓜ	67	45	64·3	50·2	56·8	- 1·1	104	0	4	0·25	- 0·21	*	*	*	*
	Cirencester	66	43	65·2	47·9	56·0	- 0·4	98	0	4	0·57	+ 0·07	44·9	- 1·2	39	- 1
	Oxford	68	49	65·7	51.7	58·2	+ 0·1	113	0	3	0·43	- 0·05	32·9	- 12·6	29	- 11
5. ENGLAND, S.	London	73	48	68·7	52·4	60·0	+ 0·6	126	0	1	0·25	- 0·20	39·6‡	- 2·4‡	35‡	- 2‡
	Wisley (Surrey)	68	48	65·8	51·7	58·3	- 1·1	114	0	3	0·24	—	42·8	—	38	—
	Swarraton (Alresford) Ⓜ	66	46	63·9	51·1	57·1	+ 0·9	106	0	3	0·43	- 0·02	*	*	*	*
	Tunbridge Wells Ⓜ	70	47	66·3	50·1	57·6	- 0·2	109	0	2	0·36	—	44·4	—	39	—
	Dungeness	65	50	61·7	52·4	56·7	- 0·8	103	0	2	0·14	- 0·16	59·0	—	52	—
	Hastings (St. Leonards)	66	48	62·8	52·0	57·0	- 0·5	105	0	3	0·22	- 0·16	55·7	+ 2·5	49	+ 2
	Southampton	70	50	66·0	53·2	59·2	0·0	120	0	4	0·39	- 0·04	35·7	- 14·5	31	- 13
	Portland Bill	62	49	59·3	52·1	55·5	- 2·4	95	0	4	0·48	—	*	*	*	*
	Shaftesbury Ⓜ	62	46	60·5	49·3	54·5	- 1·8	88	0	4	0·36	- 0·14	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	73	45	61·8	48·8	54·9	- 0·4	90	0	6	2·70	+ 1·76	*	*	*	*
	Glasgow	64	46	60·3	49·8	54·7	- 0·6	89	0	6	0·83	+ 0·18	21·2	- 16·1	18	- 13
	Cally Ⓢ	65	40	60·7	48·7	54·3	- 0·9	86	0	5	1·00	+ 0·26	*	*	*	*
	Aspatria	66	47	61·1	50·1	55·2	+ 0·6	92	0	4	0·40	—	32·4	—	27	—
	Douglas (Isle of Man)	60	47	57·8	50·1	53·7	- 1·4	82	0	6	0·93	+ 0·39	37·9	- 13·1	32	- 11
7. ENGLAND, N.W.	Newton Rigg	68	41	60·7	48·5	54·2	- 0·2	85	0	5	0·68	—	38·9	—	33	—
	Stonyhurst	67	47	61·5	51·3	56·0	- 0·2	98	0	5	0·62	- 0·13	39·5	- 5·5	34	- 5
	Blackpool Ⓜ	69	43	62·7	50·4	56·1	- 0·6	99	0	4	0·62	+ 0·12	42·2	- 2·8	36	- 2
	Manchester (Prestwich)	69	43	63·6	50·8	56·8	+ 0·7	104	0	6	0·77	+ 0·09	40·7	—	35	—
	Liverpool Obsy. (Bidston)	68	47	63·3	51·9	57·2	- 0·2	106	0	3	0·29	- 0·18	42·9	—	37	—
	Chester (Hawarden Bridge)	68	51	63·8	53·5	58·3	+ 0·6	114	0	3	0·18	—	*	*	*	*
	Llandudno Ⓜ	67	51	63·0	52·8	57·5	+ 0·2	109	0	4	0·44	0·00	47·3	+ 0·9	40	+ 1
	Holyhead	64	50	60·1	51·6	55·6	- 0·7	95	0	5	0·77	+ 0·32	*	*	*	*
	Bettws-y-Coed	69	47	62·3	52·3	57·0	+ 0·6	105	0	6	0·95	—	27·7	—	24	—
8. ENGLAND, S.W.	Pembroke	57	50	56·6	52·0	54·1	- 1·9	85	0	5	1·38	+ 0·93	36·4	- 18·1	32	- 16
	Clifton	70	50	65·1	52·0	58·1	+ 0·3	113	0	5	0·68	+ 0·16	*	*	*	*
	Bath	68	49	64·6	51·3	57·5	- 0·7	109	0	3	0·39	- 0·11	36·6	—	32	—
	Arlington (N. Devon)	66	45	60·9	49·3	54·7	- 1·0	89	0	6	1·15	+ 0·44	*	*	*	*
	Cullompton Ⓜ	69	44	64·7	49·7	56·7	- 1·0	103	0	4	0·48	- 0·05	33·2	- 14·0	29	- 12
	Falmouth	64	49	60·9	52·0	56·1	- 1·3	99	0	4	1·06	+ 0·50	30·1	- 24·4	27	- 22
	Plymouth	64	50	59·4	52·5	55·7	- 2·9	96	0	3	0·69	+ 0·24	32·9	- 17·7	29	- 16
9. IRELAND, N.	Malin Head	68	47	60·3	49·1	54·3	- 0·4	86	0	7	0·23	- 0·30	*	*	*	*
	Edenfel (Omagh)	67	45	60·1	49·9	54·6	- 0·3	88	0	6	1·13	+ 0·47	*	*	*	*
	Blacksod Point	63	50	58·6	52·4	55·3	- 0·6	93	0	7	1·92	+ 1·28	*	*	*	*
	Markree Castle	67	44	61·4	48·8	54·7	- 0·1	89	0	6	1·15	+ 0·41	27·2	- 12·0	23	- 10
	Armagh	69	41	62·1	48·8	55·0	- 0·8	91	0	5	0·74	+ 0·18	27·0	- 13·3	23	- 11
	Donaghadee	63	45	60·4	49·1	54·4	- 0·9	87	0	6	1·55	+ 1·04	*	*	*	*
10. IRELAND, S.	Dublin	70	48	64·9	52·4	58·2	+ 0·5	113	0	4	0·40	- 0·04	40·4	- 5·6	35	- 5
	Birr Castle	69	44	62·7	49·0	55·4	- 0·9	94	0	5	0·88	+ 0·32	27·6	- 12·0	24	- 10
	Kilkenny	66	42	61·9	49·7	55·4	- 1·2	94	0	6	0·89	+ 0·34	*	*	*	*
	Waterford	63	46	60·9	50·7	55·4	- 1·1	94	0	4	1·85	+ 1·26	*	*	*	*
	Roche's Point	62	46	59·9	52·7	56·1	- 1·4	99	0	5	1·44	+ 0·74	*	*	*	*
	Valencia	62	49	59·9	52·6	56·0	- 0·5	98	0	7	2·20	+ 1·42	23·7	- 17·3	25	- 15
	Killarney	66	48	63·2	52·1	57·3	+ 1·2	107	0	6	1·64	+ 0·98	*	*	*	*
	Foynes	67	47	63·4	51·3	56·9	+ 0·6	104	0	6	1·04	+ 0·45	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	53	60·9	53·9	57·2	0·0	106	0	5	0·87	+ 0·47	36·8	- 21·0	33	- 19
	Jersey	67	49	64·7	53·1	58·5	- 0·2	116	0	4	0·26	- 0·18	58·7	+ 1·1	52	+ 1

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

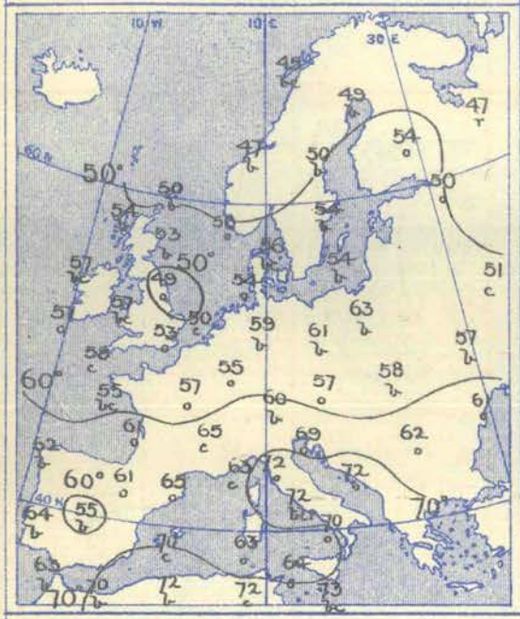
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

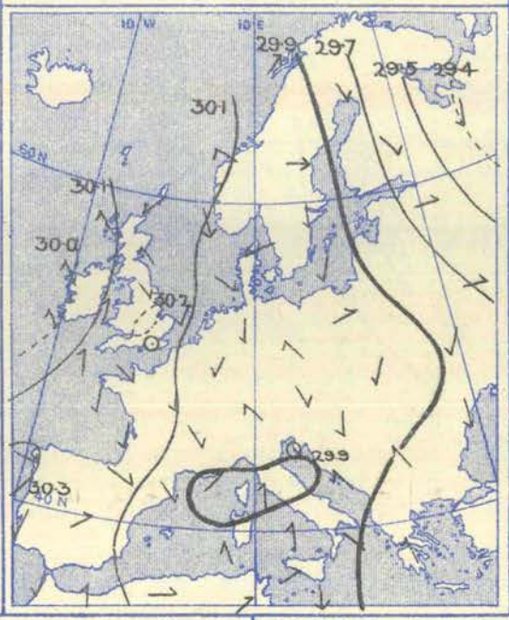
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 12th June, 1904.

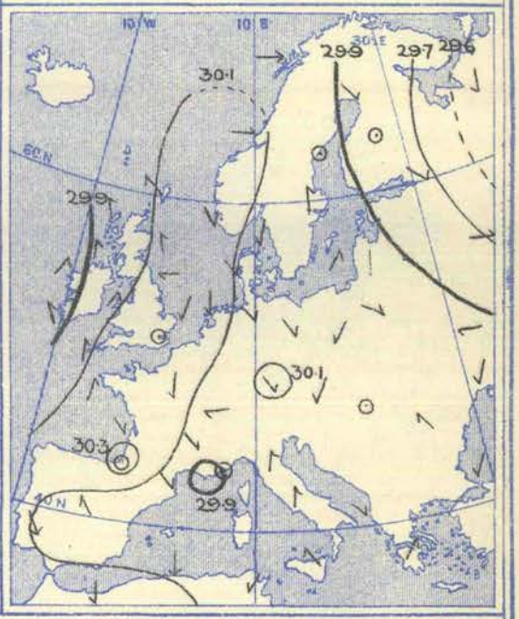
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over western and southern Europe as a whole, with rain at Florence and a thunderstorm at Rome. Fine and bright over the Spanish Peninsula, and also in the north and east of Scotland and in Scandinavia and North Germany. Sky clearing later over England, but rain falling in evening or night over the western and northern parts of the United Kingdom—heavily on our extreme west and south-west coasts. Considerable quantities of rain falling also over central Italy.

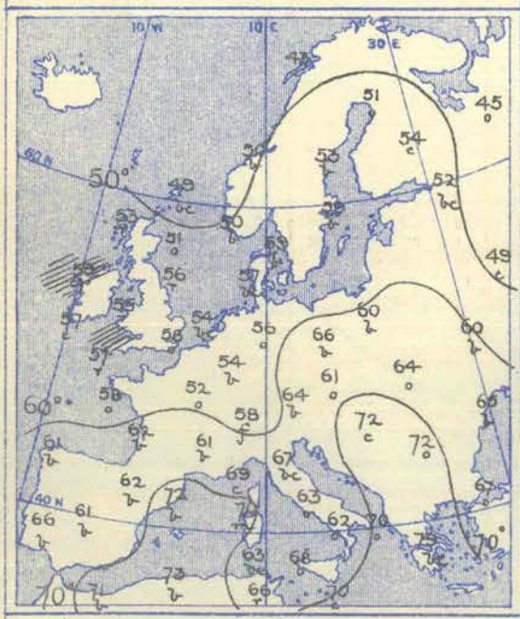
Temperature risen in the west and north of our Islands and also in Norway and Germany, fallen elsewhere. Morning readings highest, 81° at Athens, 75° at Brindisi, and 73° at Malta: slightly above 70° in several parts of southern Europe. Lowest, (1) 45° at Bodö and 47° at Christiansund and Archangel; (2) 48° at Leith, and 49° at Shields, Spurn Head, and Nottingham; below 55° over all but the south-western parts of the United Kingdom. Daily maxima below 60° at several of our northern and central stations, but thermometer exceeding 65° in the west and south, and reaching 69° at Blackpool, Southport, and Bettws-y-Coed. Exceeding 75° in many parts of southern Europe, and reaching 85° at Brindisi.

Wind light from the Southward or South-Eastward over all the more western and northern parts of the United Kingdom, but Northerly (North-Westerly to North-Easterly) over England and the western and northern parts of the Continent, light and variable over Germany, Austria, and Italy. No decided change occurring during day.

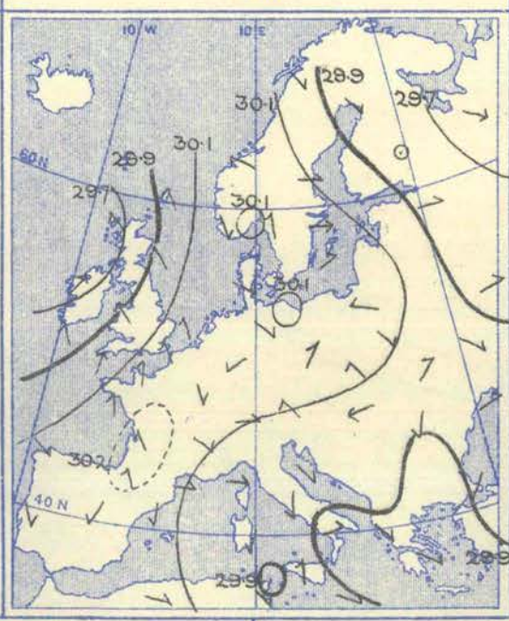
Barometer highest, 30·3 ins. and upwards in a small area lying off the north-west of Spain; 30·1 ins. and upwards in a broad ridge extending thence over the Bay of Biscay, the west and north of France, Great Britain, and the major part of the North Sea. Lowest, 29·4 ins. and less in a depression over northern Russia, 29·9 ins. and less in a shallow disturbance over northern Italy and the Gulf of Genoa, 30·0 ins. and less in a third system off the west of Ireland. Depression off our western coasts subsequently spreading eastwards, and barometer falling in all the more western and northern parts of the United Kingdom.

Monday, 13th June, 1904.

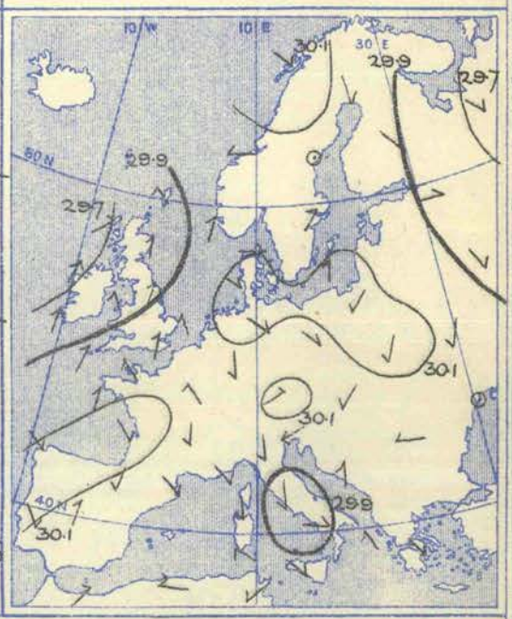
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. was very variable over our Islands, rain falling at all stations in a belt extending from Scilly north-eastward and north-westward round to the Hebrides, in other localities fine to dull, with fog along the south-east coast of England. Generally over the Continent the weather was fair or fine, and of the foreign stations rain was reported only at La Calle. During the day rain occurred at nearly all places in the British Isles, generally slight in amount. Few places abroad received any, but Ushant measured 1·6 ins., Tunis 0·7 in., and Cagliari 0·5 in. A thunderstorm occurred at Lesina.

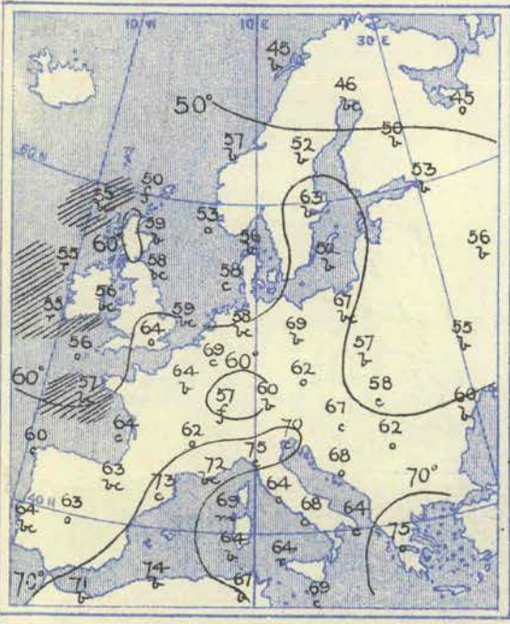
Temperature in morning highest, 79° at Athens, 76° at Patras, 73° at Algiers, 72° at Barcelona, Buda-Pesth, and Hermanstadt; in our Islands, 60° at Nottingham and Parsonstown. Lowest readings, 40° at Sumburgh Head and Moscow, 45° at Archangel, and 43° at Bodö. In the course of the day rising to 90° at Laghouat, 84° at Sfax and Madrid, 83° at Perpignan, and 82° at Croisette, to 78° in London, to 54° at Skudesnaes and Wisby, 53° at Sumburgh Head, and 47° at Bodö.

Wind at 8 a.m. generally from between South-West and South-East over our Islands, and blowing fresh or strong at some of the western and northern stations; very variable in direction over Continental regions, and in few localities having the force of as much as a moderate breeze. No important change taking place during the day other than an increase of the Southerly current in the north-west of Ireland to a moderate gale.

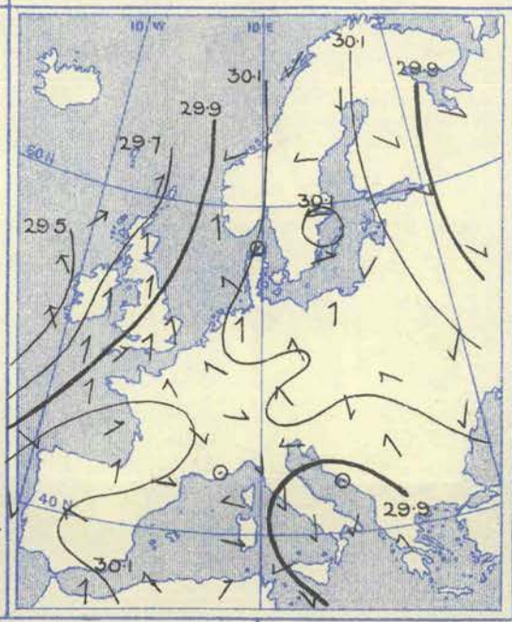
Barometer at 8 a.m. highest, 30·25 ins. in a small anticyclonic nucleus over the west of France. Lowest, below 29·7 ins. in a depression off the Irish coast, and in another on the White Sea. A number of small local irregularities of relatively high or low pressure over the Continent generally. The changes in the distribution of pressure up till evening of little importance, the feature still being the number of small inequalities in the barometric values.

Tuesday, 14th June, 1904.

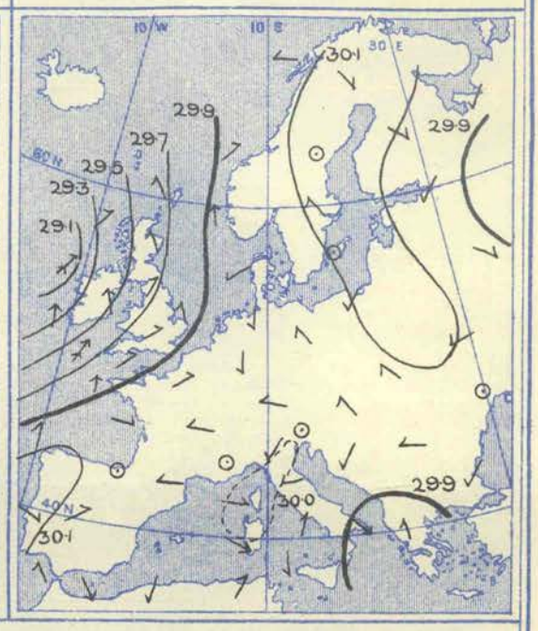
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rainy and misty in Ireland, cloudy at many of the southern English stations, but fair elsewhere. Cloudless skies reported from most of the northern and eastern European stations. Rain later over the whole of our Islands, and at many of the French stations; on the west coast of Ireland the amounts measured were close on 1 in. A large amount (1·30 ins.) also reported to have fallen at Rome.

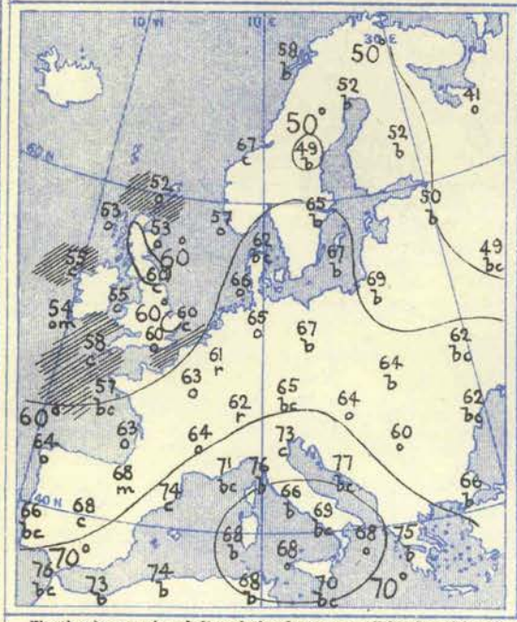
Temperature fallen a little in Ireland, risen in most other places, decidedly over Belgium and the north-east of France. Morning readings highest, 75° over southern Greece, 74° at Algiers, 73° at Cape Sicié and Barcelona, above 60° over southern and central Europe, the south-east of England, and at several of the Scotch stations. Lowest, 45° at Archangel and Bodö, 46° at Haparanda, and 50° at Kuopio and Sumburgh Head. Rising during day to 70° in London, to between 70° and 80° over France, to above 80° at many of the southern European stations. The highest readings recorded being 88° at Croisette and Sfax, and 90° at Sanguinaires.

Wind Southerly over our Islands, blowing freshly or strongly at many of the western and north-western stations, mainly light from the Eastward or South-Eastward at the Continental stations, but Northerly light over Italy and western Russia. Reaching the force of a gale during the day over Ireland and the west of England, but no change of importance elsewhere.

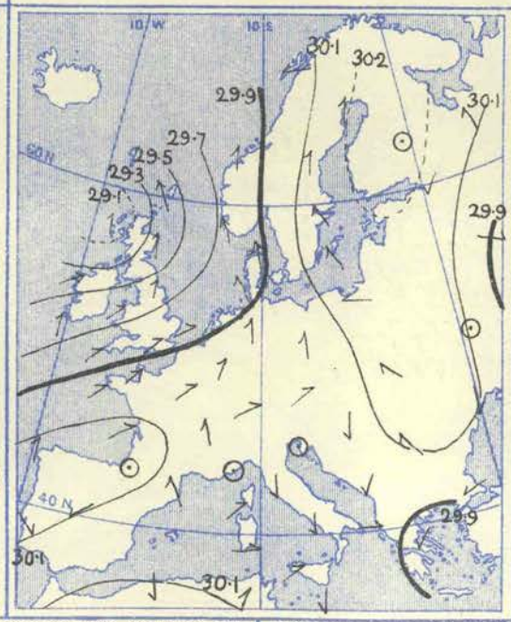
Barometer fallen decidedly in Ireland, and to a less extent over our Islands generally; rising slowly on the Continent. Highest, 30·1 ins. and upwards in an anticyclone over southern France and the greater part of the Spanish Peninsula, and also in a large area stretching from central Europe to Germany, the Baltic provinces, and Sweden. Lowest, 29·5 ins. and less in a depression lying off the west of Ireland, and 29·3 ins. and less in a shallow area over the southern part of Greece. Depression in the west spreading over our Islands later; no material change reported from the Continental stations.

Wednesday, 15th June, 1904.

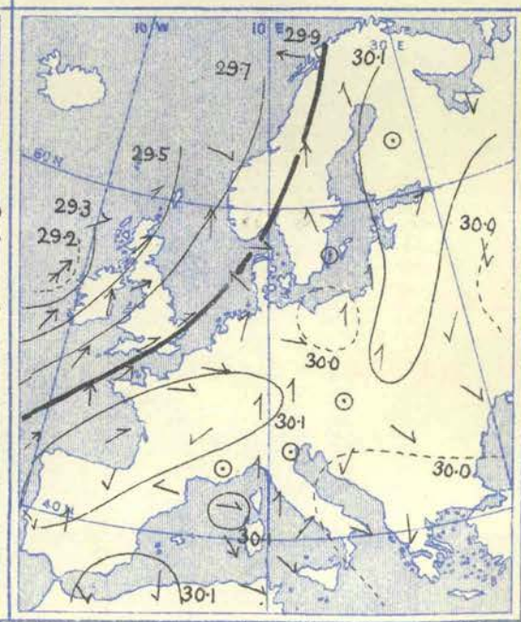
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and cloudy over our Islands, with rain over the north of Ireland, dull and unsettled also at many of the French stations, with rain at Brussels and Belfort. Fine and bright at most of the Continental stations. Rain later over the greater part of our Islands, and also in Denmark, southern Norway, and at some of the German stations, but no very large amounts recorded.

Temperature fallen a little in Scotland, changed slightly and irregularly elsewhere. Morning readings highest, 77° at Lésina, 76° at San Fernando and Leghorn, 75° at Patras and Cape Sicié, 74° at Barcelona and Algiers, above 60° over the south-east of England, the east of Scotland, the greater part of France, and most of the central and southern European stations. Lowest, 41° at Archangel, 49° at Moscow and Hernösand, 50° at St. Petersburg, and 52° at Haparanda, Kuopio, and Sumburgh Head. Rising during day to 68° at Nairn, but maxima over our Islands generally below 65°. High maxima recorded over southern Europe, the thermometer reaching 85° in many places in Austria and Italy, rising to 91° at Perpignan and Sfax, and to 93° at Madrid.

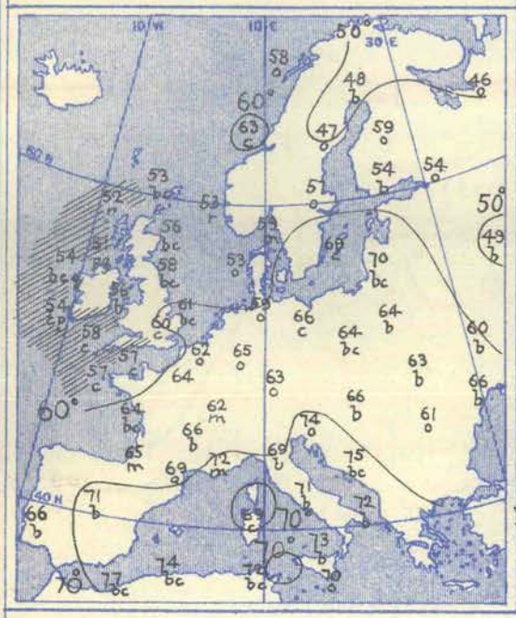
Wind fresh to strong from South-West over our Islands and the neighbouring parts of the Continent, light and variable in most other places. Increasing to a gale or strong wind over all the western parts of the United Kingdom later, no change of importance elsewhere.

Barometer highest, 30·2 ins. and more over Finland, and 30·1 ins. and more over the south-west of France and the western half of Spain. Lowest, 29·2 ins. and less in a depression off our north-west coasts, 29·9 ins. and less over central Russia, and 29·9 ins. and less in a shallow area lying over Greece. Falling again off the west of Ireland later, very little change elsewhere.

Thursday, 16th June, 1904.

Temperature and Weather.

8 a.m.

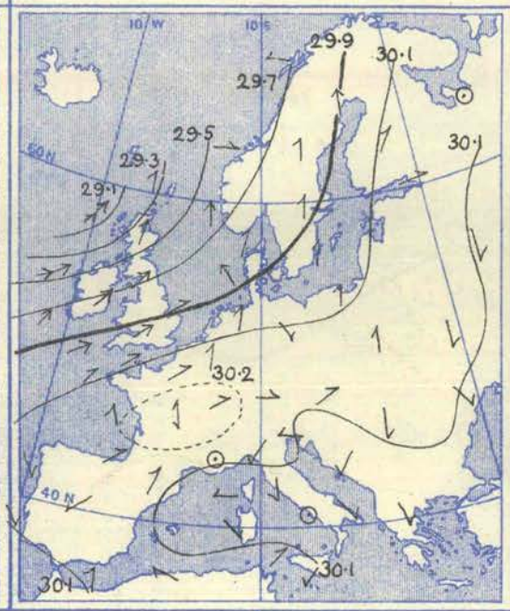


Weather in morning unsettled and rainy on our western and north-western coasts, and also on the west coast of Norway and over northern Europe, fair in most other places, and very fine at many Continental stations. Rain later over Ireland and the north of Scotland, as well as over the greater part of Scandinavia.

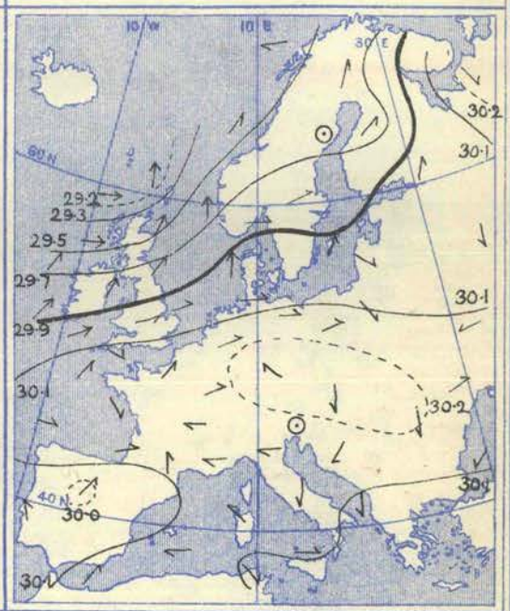
Temperature changed very little. Morning readings highest, 77° at Oran, 75° at Lésina, 74° at Patras, Trieste, and Algiers, above 70° at several Mediterranean stations, and exceeding 60° over central and southern Europe and the south-east of England. Lowest, 46° at Archangel, 47° at Hernösand, 48° at Haparanda, 49° at Moscow, 51° at Malin Head, and 52° at Stornoway. Rising during the day to 74° at Skegness and 70° at Yarmouth. Much higher readings recorded on the Continent, the thermometer rising to 81° at Frankfurt and Nice, to 84° at Lyons, 88° at Perpignan and Rome, and touching 95° at Madrid.

Barometer and Wind.

8 a.m.



6 p.m.



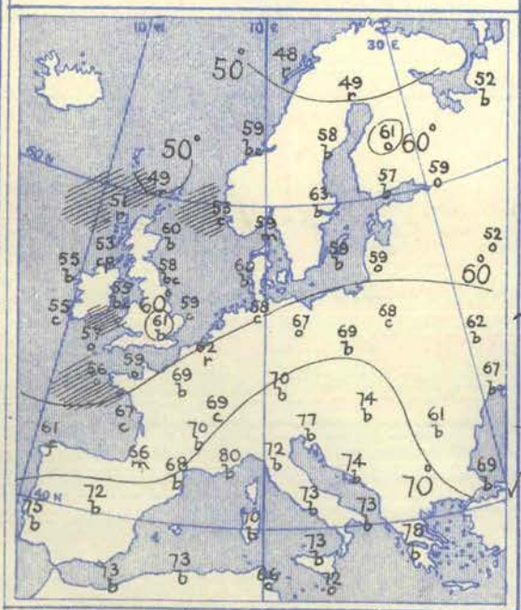
Wind strong from the South-Westward or Southward over our Islands, France, Germany, and Scandinavia, but light and very variable at the Continental stations. Becoming more Westerly over the United Kingdom later, and continuing to blow strongly. No material change elsewhere.

Barometer falling on the eastern shores of the North Sea, rising in most other places. Highest, 30·2 ins. and upwards in an anticyclone over western Russia, and also in another system lying over central France. Lowest, 29·1 ins. and less in a deep depression off the north-west coast of Scotland. Disturbance travelling away to the north-westward later, and barometer continuing to rise very generally.

Friday, 17th June, 1904.

Temperature and Weather.

8 a.m.

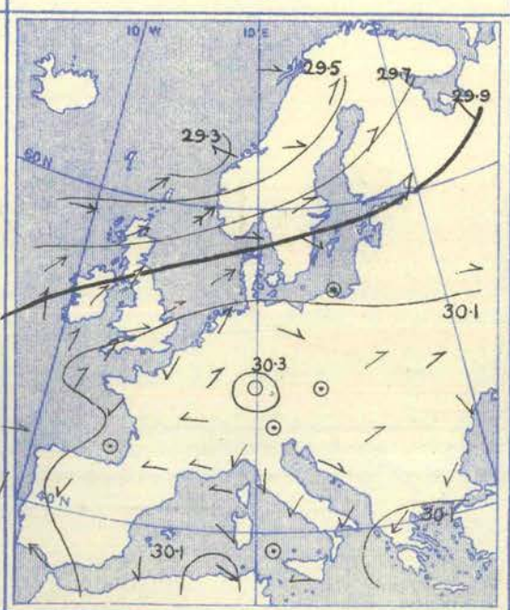


Weather in morning fine over the greater part of our Islands and on the Continent generally, but rain falling in the extreme north of Scotland and also over the north of Scandinavia. Rain later at the majority of our stations, and also in Germany and the southern Department of France. Thunderstorms reported from the shores of the Bay of Biscay and also at a few Channel stations, and thunder heard in Paris.

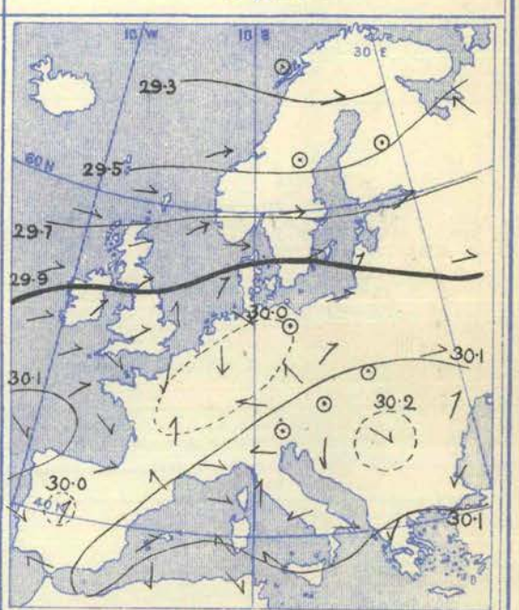
Temperature risen somewhat at many of the Continental stations, but changed very little over our Islands. Morning readings highest, 80° at Nice, 78° at Athens, 78° at San Fernando, 77° at Trieste, and 76° at Leghorn, above 70° over southern Europe generally, and above 60° over the central parts of the Continent. Highest in our Islands, 61° at Clacton-on-Sea and in London. Lowest, 48° at Bodö, 49° at Haparanda and Sumburgh Head, 51° at Stornoway, and 52° at Archangel and Moscow. Rising during day to 71° in London, to above 70° in the west of France, exceeding 80° over central and southern Europe generally, touching 90° at Belfort, Lyons, Frankfurt, Buda-Pesth, and Florence, and reaching 91° at Nancy, Aumale, and Madrid, the highest recorded being 97° at San Fernando.

Barometer and Wind.

8 a.m.



6 p.m.

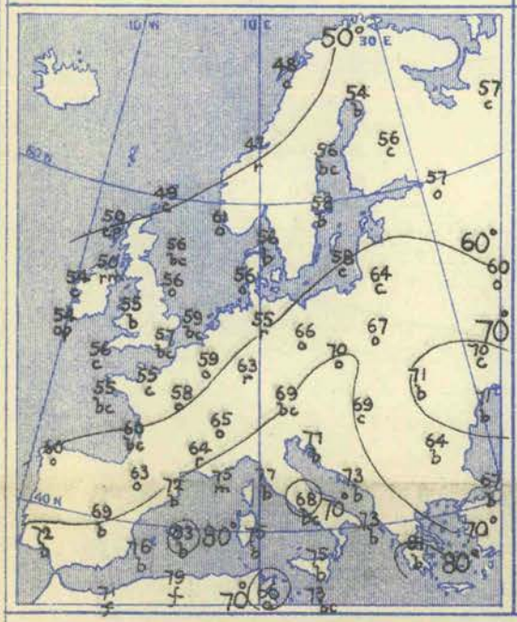


Wind moderate to fresh from the Westward or South-Westward over our Islands, Scandinavia and northern Russia, light from North-East in the west of France; continuing light and variable over southern and central Europe. Becoming more Westerly over the United Kingdom and northern Europe later, and blowing very strongly at many Scandinavian stations.

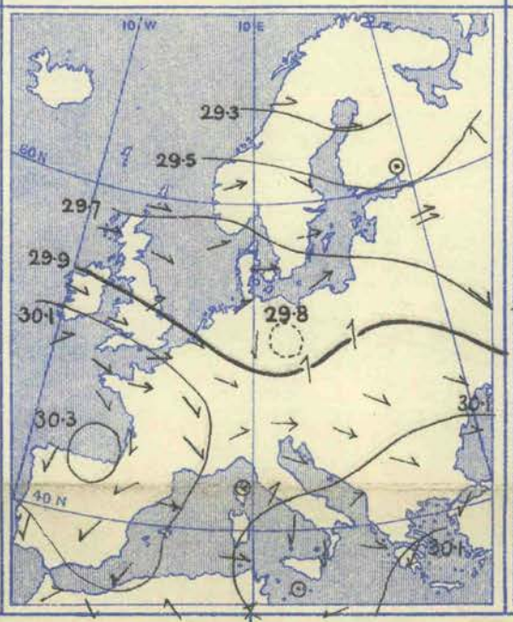
Barometer rising over our Islands and at most of the Continental stations, falling to the eastward of the North Sea. Highest, 30·2 ins. to 30·3 ins. and upwards in an anticyclone lying over central Europe. Lowest, 29·3 ins. and less in a depression to the northward of the Shetland Islands, and 30·1 ins. and less in two shallow systems lying respectively over southern Greece and Algeria. Northern disturbance passing away to the northward later, and a new shallow depression appearing over eastern France and western Germany later.

Saturday, 18th June, 1904.

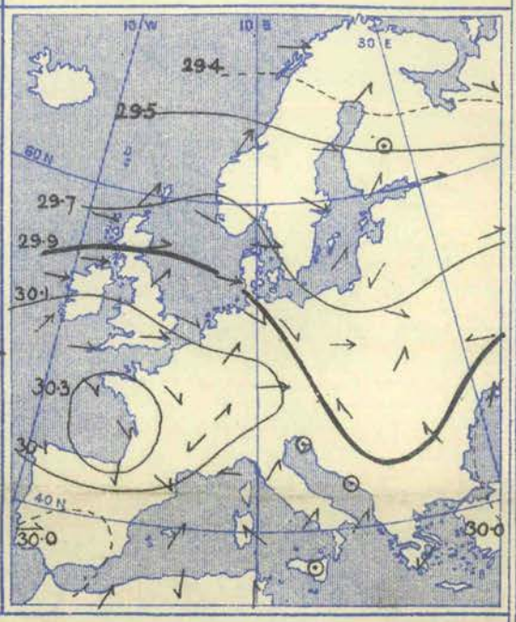
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine at the majority of stations both in our Islands and on the Continent, but showery on our extreme western and north-western coasts, and steady rain falling at Christiansund, Cuxhaven, and Frankfurt, as well as at Lyons. Rain later over Ireland, Scotland, central France, Germany, and Austria, but no very large amounts measured.

Temperature fallen somewhat over these Islands and the neighbouring parts of the Continent, no great change elsewhere. Morning readings highest, 83° at Palma, 81° at Patras, 79° at Alicante, 77° at Leghorn and Trieste, above 70° at the Mediterranean stations and over southern Russia, exceeding 60° over the greater part of France and central Europe, but not touching that value at any of our own stations. Lowest, 47° at Christiansund, 48° at Bodö, 49° at Sumburgh Head, and 50° at Stornoway. Rising during day to between 60° and 68° over Great Britain, to above 70° over Germany and central France, exceeding 80° at many southern European stations, and in Austria, rising to 91° at Patras and 95° at Madrid.

Wind Westerly over our Islands and at most of the Continental stations, moderate to fresh in force, mostly Northerly light over southern Europe and the Mediterranean. No material change later, but wind freshening considerably at several of the Irish and English stations, and becoming rather more variable in direction over southern Europe.

Barometer rising over our Islands, falling on the Continent generally. Highest, 30·3 ins. and more in an anticyclone over the Bay of Biscay, the west of France, and the northern part of the Spanish Peninsula, and 30·1 ins. and more over Italy and south-eastern Europe. Lowest, 29·3 ins. and less in a shallow system over northern Europe, and 29·8 ins. and less in a small depression over north-western Germany. High pressure area over the Bay of Biscay moving slowly eastward later, and low pressure over Germany filling up. No important change elsewhere.

IV.—GENERAL NOTES, etc.

At the commencement of the week a broad band, or ridge, of high pressure extended northward from an anticyclonic centre lying off the north-west of Spain over nearly the whole of France, Great Britain and the adjacent parts of the Atlantic. The barometer was, at the same time, lowest in a depression over northern Russia, but was somewhat low in a complex area over Corsica and northern Italy, in which latter region, thunderstorms and heavy rains were reported.

The anticyclone and its accompanying ridge afterwards moved north-eastwards, the latter to northern and central Europe, and the weather in these Islands came under the influence of cyclonic disturbances, the centres of which travelled in a north-north-easterly direction along our western and northern coasts. Southerly and South-Westerly winds of increasing strength, and rainy weather, consequently set in very generally, and extended gradually to nearly all parts of western Europe. On Tuesday, when a rather deep depression moved along, the wind increased to a gale from the Southward on all our western coasts, with heavy rain in Ireland, while on Wednesday night and Thursday, when a still deeper system appeared, a gale from South-West was experienced in the west and north generally.

Towards the close of the week the Atlantic disturbances all passed away to the north-eastward and pressure increased generally in these Islands, the highest readings being found, however, over the central and southern parts of the Continent. With these conditions the wind over the United Kingdom veered more to the Westward, and the weather improved very materially. On Friday a shallow depression, which appears to have been developed originally over the Bay of Biscay, moved in an east-north-easterly direction across France, its progress being attended by thunderstorms in several parts of that country, as well as at some places in the extreme south of England.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 140.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	36·4	+ 1·4	29	+ 1
STRATHPEFFER SPA	32·4	− 5·6	26	− 5
CRATHES	60·2	—	49	—
EDINBURGH	32·4	− 2·1	27	− 2
COCKLE PARK	42·6	—	36	—
NEWCASTLE-ON-TYNE	43·3	—	36	—
YORK	29·1	− 10·9	25	− 9
SKEGNESS	47·9	—	41	—
CROMER	52·8	—	46	—
LOWESTOFT	46·6	—	40	—
DUNMOW	52·8	—	46	—
SHEFFIELD	44·1	—	38	—
WORKSOP	40·5	+ 3·1	35	+ 3
THURCASTON	45·2	+ 4·8	39	+ 4
MARGATE	54·2	+ 11·2	48	+ 10
BROADSTAIRS	59·1	—	52	—
RAMSGATE	60·1	—	53	—
EASTBOURNE	57·0	+ 5·4	50	+ 5
BRIGHTON	47·5	− 4·8	42	− 4
WORTHING	—	—	—	—
BOGNOR	49·0†	—	43†	—
WESTBOURNE	66·1†	+ 16·2	58†	+ 14
VENTNOR HOSPITAL	36·3	− 9·4	32	− 8
BOURNEMOUTH	39·3	—	35	—
MARLBOROUGH	37·5	− 6·4	33	− 6
SOUTHPORT	40·9	—	35	—
RHYL	41·8	—	36	—
ABERDOVEY	38·4†	—	33†	—
TENBY	—	—	—	—
TORQUAY	37·9	− 17·6	34	− 16
NEWQUAY	36·4	− 16·5	32	− 15
GUERNSEY	66·8†	+ 7·6	60†	+ 7

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

Reports received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending May 14th, 1904.	Bawtry	66	—	60·0	—	—	—	—	—	2	0·16	− 0·27	—	—	—	—
" " "	Laudale	56	36	53·0	41·7	47·0	− 2·1	36	1	4	1·33	+ 0·50	—	—	—	—
" " "	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	26·8	—	25	—
" " " 21st, "	Lairg	66	39	63·1	44·7	53·4	+ 6·6	80	0	4	0·93	+ 0·46	—	—	—	—
" " "	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	64·3	—	59	—
" " " 28th, "	Bawtry	74	—	63·4	—	—	—	—	—	4	0·47	+ 0·02	—	—	—	—

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TWENTY-SEVENTH YEAR. Vol XXI. (New Series.) } No. 25. TWENTY-FIFTH WEEK, ENDING SATURDAY, JUNE 25TH, 1904. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 146.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	64	40	56·0	47·4	51·4	2 below	66	− 9	0	0	631	− 40	477	− 72
	1. SCOTLAND, EAST	66	42	60·2	48·2	53·8	1 below	83	− 8	0	0	708	−123	585	− 7
	2. ENGLAND, N.E.	71	43	63·3	49·9	56·1	1 below	99	− 1	0	0	853	− 2	431	− 59
	3. ENGLAND, EAST	73	39	66·6	48·8	57·1	1 below	106	− 7	0	0	968	− 81	404	−131
	4. MIDLAND COUNTIES	72	39	63·8	47·5	55·1	3 below	92	−20	0	0	911	−167	474	− 73
	5. ENGLAND, SOUTH	74	41	65·5	49·3	56·8	2 below	104	−16	0	0	1010	−153	345	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	68	43	59·5	48·9	53·9	2 below	83	−13	0	0	785	−113	375	− 42
	7. ENGLAND, N.W.	66	42	60·6	49·6	54·7	3 below	89	−16	0	0	824	−138	386	− 13
	8. ENGLAND, S.W.	71	39	62·3	49·1	55·2	3 below	92	−19	0	0	1026	− 93	252	− 53
	9. IRELAND, NORTH	66	41	59·1	49·2	53·8	2 below	83	−15	0	0	826	−165	337	− 20
	10. IRELAND SOUTH	69	43	62·2	49·1	55·2	2 below	92	−16	0	0	1046	−124	232	− 24
	— CHANNEL ISLANDS	69	49	62·6	52·0	57·0	2 below	105	−14	0	0	1242	− 47	80	− 41

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 146.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	11	4 more	118	+13	26·0*	+ 4·9	20	−17	16	−13	597	− 24	27	− 1
	1. SCOTLAND, EAST	5	7	1 more	103	+14	13·6	+ 0·7	29	−10	24	− 9	611	− 73	28	− 3
	2. ENGLAND, N.E.	3	7	2 more	90	+ 7	10·0	− 0·2	31	−15	26	−12	614	−114	28	− 5
	3. ENGLAND, EAST	2	2	3 less	87	+ 2	9·6	− 0·2	47	+ 2	40	+ 2	683	−125	31	− 6
	4. MIDLAND COUNTIES	2	2	3 less	97	+17	11·9	+ 0·4	34	− 6	29	5	585	−100	27	− 5
	5. ENGLAND, SOUTH	2	2	2 less	97	+18	13·8	+ 2·2	54	+ 5	47	+ 4	678	−103	31	− 5
Principal Grazing Districts.	6. SCOTLAND, WEST	4	8	0 (average)	107	+15	24·2	+ 3·2	23	−17	19	−14	601	−105	27	− 5
	7. ENGLAND, N.W.	3	2	4 less	101	+15	15·3	+ 1·8	27	−14	23	−12	629	− 52	29	− 2
	8. ENGLAND, S.W.	1	3	3 less	101	+13	18·5	+ 2·7	49	0	43	0	680	−149	31	− 7
	9. IRELAND, NORTH	4	2	4 less	121	+16	17·2	+ 2·2	19	−19	16	−16	607	− 78	28	− 4
	10. IRELAND, SOUTH	3	4	3 less	112	+17	19·6	+ 2·0	25	−17	22	−15	659	−107	30	− 5
	— CHANNEL ISLANDS	1	1	3 less	115	+23	18·1	+ 4·7	70	+13	62	+11	813	−134	37	− 6

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was unsettled in the far west and north-west, and in those districts rain was rather frequent. In other parts of the Kingdom conditions were fair until towards the end of the period, when rain or showers became general. On Friday the rain was very heavy over the north-east of England—more than an inch in several places. On the same day local thunderstorms were experienced both over the northern and southern counties.

Temperature was below the normal throughout the Kingdom, the deficit ranging from 1° in the north-east and east to 3° in the Midlands and some western districts. The highest of the maxima were registered on rather irregular dates, and varied from 74° in England S. and 73° in England E., to 64° in Scotland N. The lowest of the minima, which generally occurred about the middle of the week, ranged from 39° in England E., the Midland Counties, and England S.W., to 43° in England N.E., Scotland W., and Ireland S., and to 49° in the Channel Islands.

Rainfall exceeded the mean in Scotland N. and E. and England N.E., and was just equal to it in Scotland W.; elsewhere, however, there was a deficit.

Bright Sunshine was deficient except in England S. and S.W. and the Channel Islands. The percentage of the possible duration ranged from 62 in the Channel Islands, 47 in England S., 43 in England S.W., and 40 in England E., to 23 in England N.W., and to 16 in Scotland N. and Ireland N.

Barometer and Wind. During the greater part of the week the barometer was highest to the southward and south-westward of our Islands, the only depressions observed being at a considerable distance from our northern coasts. The wind was consequently mainly Westerly to North-Westerly, and of little strength. On Friday a great change was brought about by the giving way of the southern high pressure, and the appearance of a depression off our western coasts. This system subsequently moved eastwards to the North Sea and became much deeper, so that the North-Westerly wind in its rear increased to a fresh or strong breeze.

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II.—DATA from which the SUMMARY on page 145 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	55	40	52·9	44·1	48·2	− 2·1	43	0	5	0·52	+ 0·07	*	*	*	*
	Stornoway	59	47	56·7	48·3	52·2	− 0·5	71	0	7	0·57	+ 0·01	30·7	− 10·3	24	− 8
	Wick	59	40	56·7	46·1	51·0	− 1·7	63	0	7	0·93	+ 0·50	*	*	*	*
	Lairg ℌ	64	46	58·3	47·6	52·6	− 0·5	74	0	7	0·84	+ 0·29	*	*	*	*
	Glencarron ℌ	57	45	54·1	47·0	50·3	− 3·7	58	0	7	2·13	+ 0·96	*	*	*	*
	Fort Augustus ℌ	58	47	55·8	48·8	52·1	− 3·1	71	0	5	0·79	+ 0·24	11·3	− 18·3	9	− 15
	Fort William ℌ	59	49	57·3	49·7	53·2	− 2·0	78	0	5	1·62	+ 0·67	10·8	− 28·3	9	− 23
1. SCOTLAND, E.	Nairn	66	47	61·1	49·1	54·7	− 0·7	89	0	7	0·50	+ 0·05	*	*	*	*
	Aberdeen	65	47	60·6	49·9	54·9	+ 0·4	90	0	6	0·57	+ 0·11	29·8	− 13·4	24	− 11
	Braemar ℌ	59	44	56·3	46·1	50·8	− 2·2	62	0	4	0·48	− 0·09	*	*	*	*
	Ochtertyre ℌ	63	44	61·3	48·3	54·4	− 2·2	87	0	4	0·22	− 0·45	*	*	*	*
	Leith	66	47	62·7	49·1	55·4	− 1·0	94	0	4	0·74	+ 0·28	*	*	*	*
	Marchmont ℌ	61	42	59·4	46·4	52·5	− 2·0	74	0	2	1·37	+ 0·75	31·3	− 9·8	26	− 8
2. ENGLAND, N.E.	Alnwick Castle	67	43	63·0	49·4	55·7	+ 0·9	96	0	3	1·59	+ 1·12	*	*	*	*
	Durham	65	45	62·3	49·2	55·3	− 1·1	93	0	2	0·93	+ 0·46	27·1	− 11·8	23	− 10
	Shields	67	47	63·1	50·1	56·2	+ 1·0	99	0	4	1·32	+ 0·88	*	*	*	*
	Scarborough ℳ	71	48	63·6	49 9	56·3	− 0·1	100	0	3	0·37	− 0·13	23·2	—	20	—
	Spurn Head	69	49	61·7	52·3	56·7	− 0·1	103	0	1	0·03	− 0·33	*	*	*	*
	Lincoln	70	44	64·7	49·3	56·5	− 1·8	102	0	3	0·19	− 0·31	*	*	*	*
	Fulbeck (Lincolnshire)	70	46	64·7	48·8	56·2	− 2·0	99	0	2	0·21	− 0·25	44·6	—	38	—
3. ENGLAND, E.	Hillington ℳ	73	39	67·8	47·1	56·7	− 1·5	103	0	3	0·37	− 0·16	37·8	− 7·6	33	− 7
	Yarmouth	69	47	63·9	52·0	57·5	+ 0·2	109	0	2	0·26	− 0·20	*	*	*	*
	Geldeston	71	43	67·4	48·9	57·5	− 0·3	109	0	1	0·16	− 0·26	35·5	− 13·4	31	− 12
	Cambridge	71	39	68·0	45·8	56·1	− 3·1	99	0	1	0·03	− 0·47	52·2	+ 6·2	45	+ 5
	Felixstowe	68	45	65·2	49·7	56·9	− 0·7	104	0	1	0·09	—	44·7†	—	39†	—
	Clacton-on-Sea	70	46	66·1	49·7	57·3	− 0·9	107	0	2	0·08	—	53·7†	—	47†	—
	Rothamsted	69	42	66·0	45·9	55·3	− 2·7	93	0	2	0·16	− 0·35	52·1	+ 7·0	45	+ 6
	Shoeburyness	73	48	68·4	51·1	59·2	+ 0·6	120	0	2	0·06	− 0·32	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	69	45	61·8	47·4	54·1	− 1·8	85	0	4	0·64	− 0·01	33·9	—	29	—
	Bawtry (Hesley Hall)	71	43	65·3	47·7	55·9	− 2·2	97	0	1	0·01	− 0·52	*	*	*	*
	Nottingham	69	44	64·3	49·0	56·1	− 2·6	99	0	3	0·16	− 0·37	34·9	—	30	—
	Colly Weston (Stamford)	72	42	66·6	48·0	56·7	− 1·9	103	0	2	0·15	− 0·32	*	*	*	*
	Cheadle ℳ	65	40	59·5	46·5	52·6	− 3·5	74	0	3	0·52	− 0·15	*	*	*	*
	Birmingham (Edgbaston)	67	46	61·7	48·8	54·8	− 2·9	90	0	2	0·07	− 0·43	22·3	—	19	—
	Shrewsbury	66	44	63·1	48·4	55·2	− 3·1	92	0	2	0·10	—	*	*	*	*
	Hereford ℳ	68	40	64·5	46·2	54·7	− 4·1	89	0	2	0·10	− 0·36	*	*	*	*
	Cirencester	70	39	64·6	44·3	53·7	− 3·6	82	0	2	0·26	− 0·27	38·9	− 6·9	34	− 6
	Oxford	71	45	66·7	48·6	57·0	− 2·0	105	0	2	0·25	− 0·25	45·2	− 0·3	39	0
5. ENGLAND, S.	London	74	47	69·3	49·9	58·9	− 1·6	118	0	2	0·14	− 0·31	46·5‡	+ 4·2‡	40‡	+ 4‡
	Wisley (Surrey)	71	43	67·0	48·4	57·1	− 3·8	106	0	2	0·24	—	50·5	—	44	—
	Swarraton (Alresford) ℳ	70	41	65·2	46·1	55·0	− 2·0	91	0	2	0·18	− 0·29	*	*	*	*
	Tunbridge Wells ℳ	72	45	66·6	47·4	56·3	− 2·6	100		2	0·15	—	60·4	—	53	—
	Dungeness	66	46	64·3	50·0	56·7	− 1·8	103	0	1	0·28	− 0·03	66·8	—	59	—
	Hastings (St. Leonards)	69	48	63·9	50·9	57·0	− 1·4	105	0	2	0·54	+ 0·14	68·1	+ 14·9	60	+ 13
	Southampton	74	48	68·6	50·7	59·0	− 1·1	119	0	2	0·22	− 0·22	52·3	+ 2·0	46	+ 2
	Portland Bill	63	50	61·0	51·4	55·9	− 1·9	97	0	1	0·16	—	*	*	*	*
	Shaftesbury ℳ	68	45	63·6	48·7	55·6	− 1·4	95	0	1	0·13	− 0·40	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	60	48	56·7	49·5	52·9	− 3·1	76	0	7	1·96	+ 1·00	*	*	*	*
	Glasgow	59	47	57·6	50·0	53·5	− 2·5	81	0	4	0·63	− 0·03	18·2	− 18·5	15	− 15
	Cally ℌ	68	45	63·4	48·2	55·3	− 0·5	93	0	4	0·53	− 0·23	*	*	*	*
	Aspatria	64	47	59·9	49·4	54·3	− 1·1	86	0	3	0·49	—	16·6	—	14	—
	Douglas (Isle of Man)	64	43	59·9	47·6	53·3	− 2·4	79	0	3	0·19	− 0·38	34·2	− 15·5	29	− 13
7. ENGLAND, N.W.	Newton Rigg	63	43	60·5	47·4	53·5	− 1·7	81	0	3	0·24	—	22·2	—	19	—
	Stonyhurst	63	44	59·4	48·9	53·8	− 3·1	83	0	3	0·47	− 0·31	31·9	− 12·5	27	− 11
	Blackpool ℳ	63	42	60·8	50·4	55·2	− 2·2	92	0	3	0·05	− 0·49	30·5	− 14·1	26	− 12
	Manchester (Prestwich)	66	44	60·3	48·5	54·0	− 3·0	84	0	3	0·28	− 0·45	19·1	—	16	—
	Liverpool Obsy. (Bidston)	64	50	60·1	51·4	55·5	− 2·8	95	0	2	0·24	− 0·26	24·8	—	21	—
	Chester (Hawarden Bridge)	63	45	61·5	50·6	55·7	− 2·5	96	0	2	0·40	—	*	*	*	*
	Llandudno ℳ	64	47	61·9	50·9	56·0	− 2·2	98	0	2	0·09	− 0·37	29·7	− 15·9	25	− 13
	Holyhead	64	49	59·9	50·6	54·9	− 2·2	90	0	3	0·04	− 0·41	*	*	*	*
	Bettws-y-Coed	63	42	61·1	48·0	54·1	− 3·3	85	0	2	0·15	—	18·6	—	16	—
8. ENGLAND, S.W.	Pembroke	59	49	57·6	51·1	54·1	− 2·6	85	0	1	0·06	− 0·40	51·5	− 1·8	45	− 2
	Clifton	69	49	64·5	51·0	57·3	− 1·4	107	0	1	0·62	+ 0·09	*	*	*	*
	Bath	68	44	64·1	49·0	56·0	− 3·1	98	0	1	0·45	− 0·07	37·6	—	33	—
	Arlington (N. Devon)	64	41	60·0	46·3	52·7	− 3·8	75	0	1	0·25	− 0·50	*	*	*	*
	Cullompton ℳ	71	39	65·8	46·2	55·3	− 3·3	93	0	1	0·14	− 0·39	42·8	− 3·3	38	− 3
	Falmouth	64	48	60·7	50·0	55·0	− 3·2	91	0	2	0·11	− 0·46	55·3	+ 1·4	49	+ 1
	Plymouth	66	47	63·3	49·8	56·1	− 3·2	99	0	1	0·09	− 0·38	50·9	+ 0·6	45	+ 1
9. IRELAND, N.	Malin Head	59	47	56·3	48·4	52·1	− 3·3	71	0	5	0·42	− 0·13	*	*	*	*
	Edenfel (Omagh)	62	48	59·3	48·9	53·7	− 1·8	82	0	2	0·23	− 0·44	*	*	*	*
	Blacksod Point	59	51	57·4	51·4	54·2	− 2·2	85	0	6	0·16	− 0·48	*	*	*	*
	Markree Castle	66	41	60·4	47·7	53·6	− 1·8	81	0	4	0·21	− 0·54	19·6	− 17·9	17	− 15
	Armagh	65	47	61·8	49·3	55·1	− 1·2	92	0	2	0·20	− 0·38	18·4	− 20·3	16	− 17
	Donaghadee	61	47	59·6	49·4	54·1	− 1·9	85	0	3	0·16	− 0·38	*	*	*	*
10. IRELAND, S.	Dublin	67	51	63·8	51·4	57·2	− 1·1	106	0	3	0·18	− 0·27	24·6	− 19·8	21	− 17
	Birr Castle	69	43	63·4	48·3	55·3	− 1·7	93	0	3	0·44	− 0·13	24·5	− 13·7	21	− 12
	Kilkenny	66	43	62·7	47·7	54·7	− 2·6	89	0	1	0·15	− 0·41	*	*	*	*
	Waterford	65	46	62·9	47·4	54·6	− 2·8	88	0	1	0·31	− 0·31	*	*	*	*
	Roche's Point	64	45	61·4	48·6	54·7	− 3·5	89	0	2	0·66	− 0·01	*	*	*	*
	Valencia	60	43	58·4	50·4	54·1	− 3·1	85	0	5	0·46	− 0·32	26·1	− 18·3	23	− 16
	Killarney	68	48	62·9	49·6	55·8	− 1·9	97	0	2	0·29	− 0·38	*	*	*	*
	Foynes	68	48	62·1	49·1	55·2	− 1·8	92	0	3	0·40	− 0·20	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	51	60·4	52·1	56·0	− 2·0	98	0	1	0·01	− 0·41	50·8	− 5·9	45	− 5
	Jersey	69	49	64·7	51·9	57·9	− 1·7	111	0	1	0·19	− 0·26	82·4	+ 25·0	74	+ 22

Stations Marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

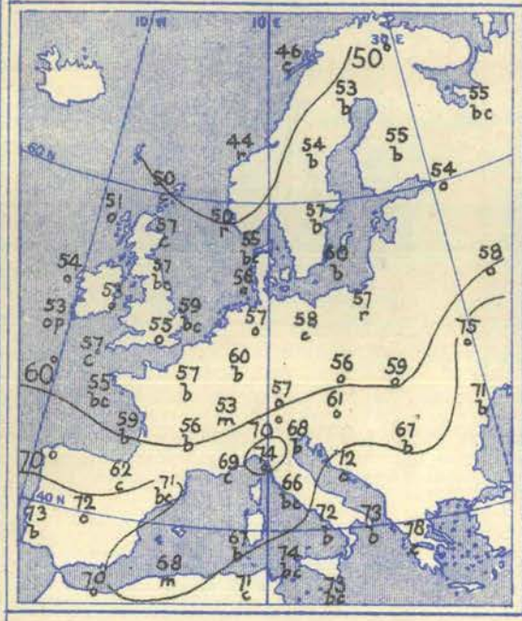
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

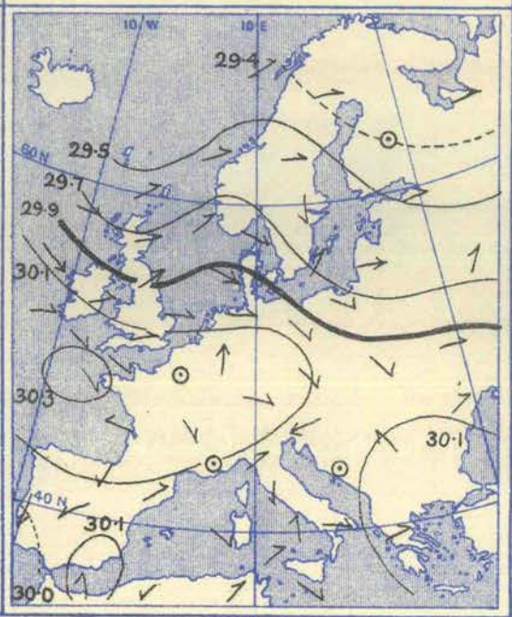
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 19th June, 1904.

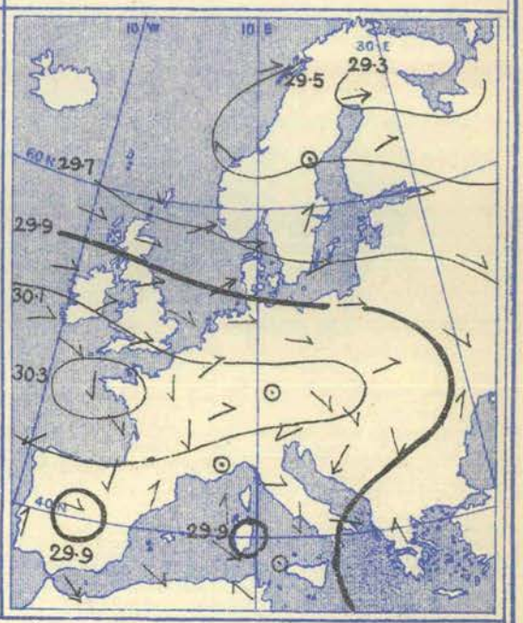
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the United Kingdom generally, with showers at some of the Irish stations. Fine over the greater part of the Continent, but rainy in the west of Norway and also at Hangö. Slight rain falling later in Ireland and the west and north of Scotland, and larger quantities at some of the Russian and Austrian stations—as much as 1·4 ins. at Hermanstadt. A thunderstorm occurring at Biarritz, and thunder heard on the Pic du Midi.

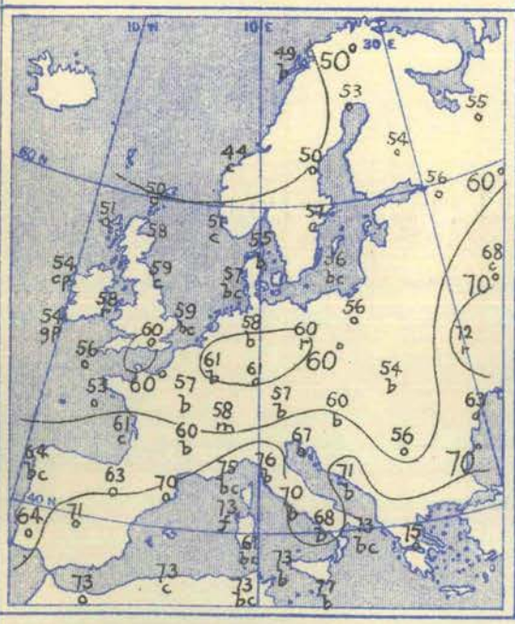
Temperature changed very little in these Islands, fallen at most of the Continental stations. Morning readings highest, 79° at Palma, 78° at Barcelona and Athens, and 77° at Patras; above 70° in most parts of southern Europe. Lowest, 44° at Christiansund, 46° at Bodö, and 50° at Sumburgh Head, Skudesnaes, and Hangö; very little above 50° in the north-west and extreme north of our Islands generally. Rising during day to between 60° and 65° in most parts of the United Kingdom, and to 66° in London and at Lowestoft; exceeding 80° over southern Europe generally, and reaching 99° at Madrid.

Wind moderate to fresh from the Westward over the north-western and northern Europe generally, but South-Westerly on the east coasts of Great Britain and in the west of Norway, North-Westerly over eastern Germany and Austria, variable over southern Europe. No decided change occurring during day.

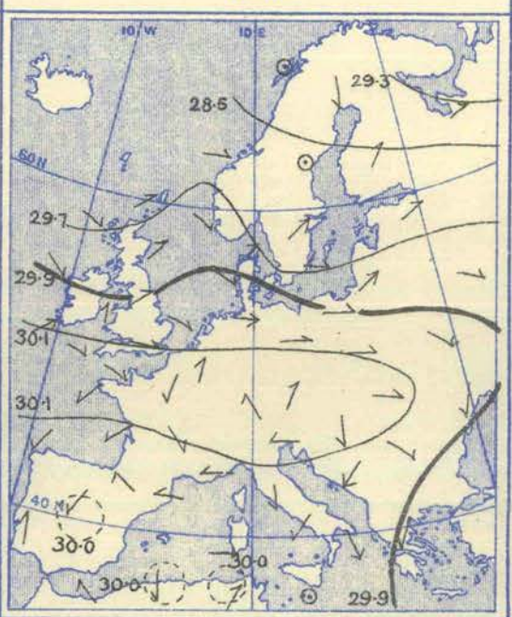
Barometer highest, 30·3 ins. and upwards over the northern part of the Bay of Biscay, 30·1 ins. and upwards in an anticyclone extending from the Atlantic over the southern parts of the United Kingdom, France, Belgium, and western and southern Germany. Lowest, 29·4 ins. and less in a depression over northern Russia, 29·9 ins. and less in a shallow system over south-eastern Europe. Anticyclone giving way slowly during day, but general distribution of pressure remaining unchanged.

Monday, 20th June, 1904.

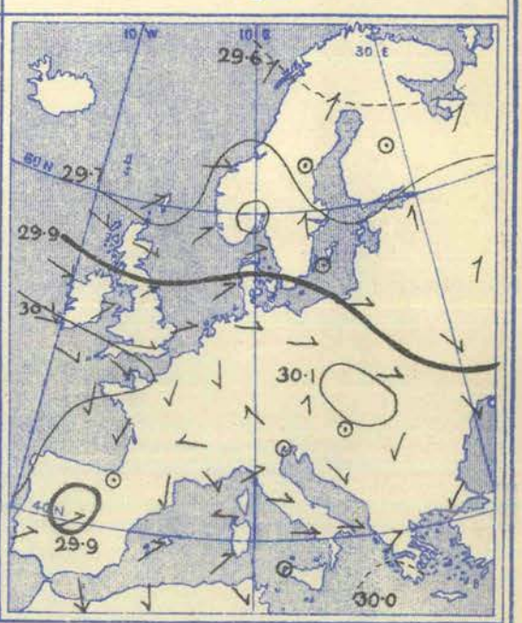
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair in most parts of Great Britain, but cloudy on our north and north-west coasts, and showery at several western stations, fine on nearly all parts of the Continent. Rain later over Ireland, Scotland, Denmark, and the west of Norway, but amounts not large except at Wick, where 0·45 in. was measured. A thunderstorm occurred at Perpignan, but only a small amount of rain fell.

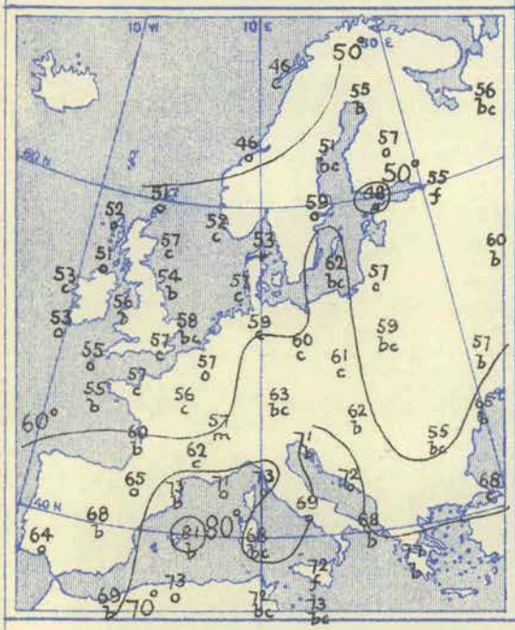
Temperature changed little and irregular. Morning readings highest, 77° at Malta and Aumale, 76° at Leghorn, 75° over southern Greece and at Barcelona, above 70° over the Mediterranean generally, above 60° over Germany and France; highest in our Islands, 61° at Clacton-on-Sea and Dungeness. Rising during day to 70° in London, 71° at Clacton-on-Sea, and 74° at Skegness; exceeding 70° over France and Germany, rising to 80° or above at most of the southern European stations, and touching 90° at Patras and 92° at Madrid.

Wind moderate or light from the Westward over our Islands, the northern parts of France and Germany, Scandinavia, and northern Russia, light and variable over central Europe, mainly Easterly or North-Easterly light to fresh in southern Europe and the Mediterranean. No material change later, but becoming very variable in direction over the southern parts of the Continent.

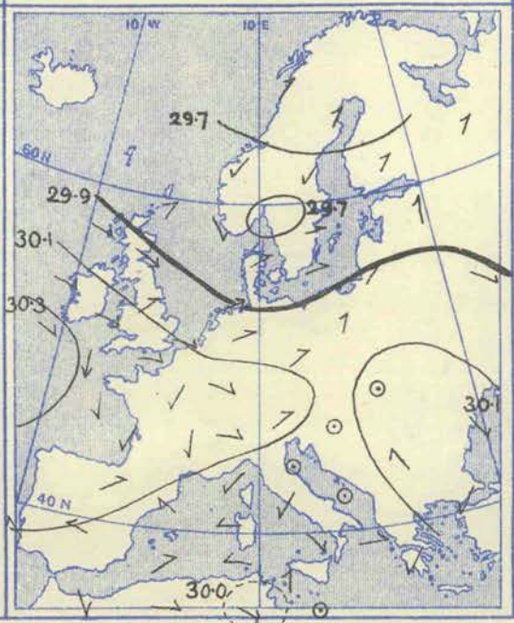
Barometer falling over our Islands, rising at most of the Continental stations. Morning readings highest, 30·1 ins. and upwards in an anticyclone lying over Austria, Germany, the greater part of France, and the south of England. Lowest, 29·3 ins. and less in a shallow system to the northward of the White Sea, and 30·0 ins. and less in several small centres over Spain and the Mediterranean. No great change later, but high pressure undergoing considerable modification, and dividing into two parts, one off our south-west coasts, the other over Poland and Galicia. Southern low pressure systems dispersing.

Tuesday, 21st June, 1904.

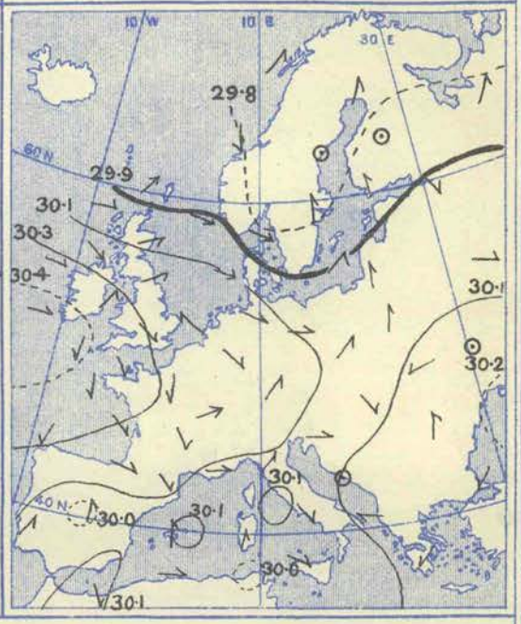
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over our Islands, but cloudy in many places; rainy at Skagen, but fine over the Continent generally. A few slight showers in the north and north-west of Scotland and Ireland later, and also at Berlin and Christiansund, but remaining fine and dry elsewhere.

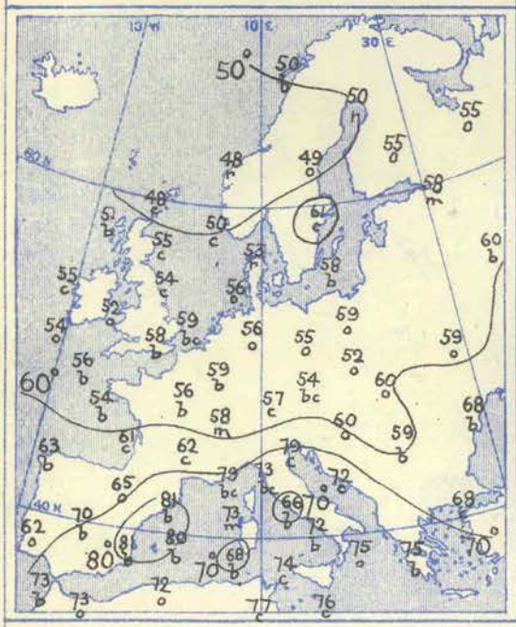
Temperature fallen somewhat over our Islands, risen a little at many of the Continental stations. Morning readings highest, 81° at Palma, 77° at Aumale and Patras, 76° at Barcelona, 75° at Tunis and Sfax, above 70° over southern Europe, above 60° over the greater part of Germany and Austria, but below 60° at most of the French stations; highest in our Islands, 62° at Dungeness. Lowest, 46° at Bodö and Christiansund, 51° at Hernösand and Sumburgh Head, 52° at Stornoway and Wick. Rising later to 71° at Brighton, to above 70° over central Europe, to 80° or rather above in Italy and southern France, touching 91° at Madrid, 97° at Aumale, and 102° at Tunis.

Wind North-Westerly to Westerly over our Islands and northern Europe, blowing freshly in many places, light from the Northward over France, light and variable elsewhere, becoming anticyclonic over Scandinavia later, but no material change shown beyond a further freshening at many western stations.

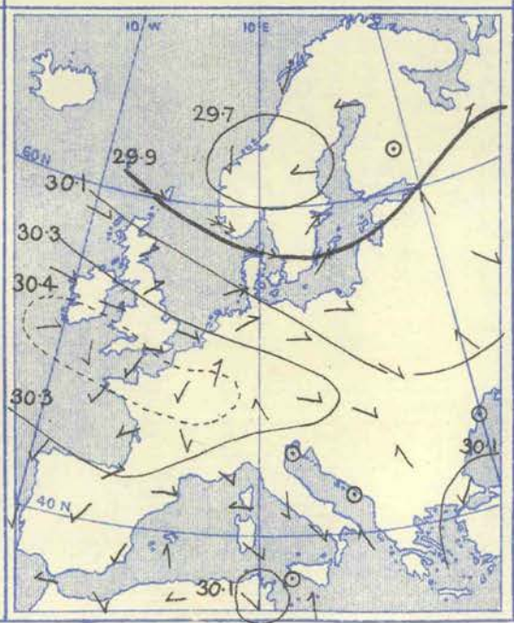
Barometer rising in nearly all places, rather decidedly over our Islands. Highest, 30·3 ins. and upwards in the eastern side of an anticyclone off our south-west coast, and 30·1 ins. and upwards in another high pressure over south-eastern Europe. Lowest, 29·6 ins. and less over northern Europe, 29·7 ins. and less in a shallow system over central Scandinavia, and 30·0 ins. and less in a slight disturbance over western Algeria. No change of importance later beyond the appearance of a shallow depression over central Spain.

Wednesday, 22nd June, 1904.

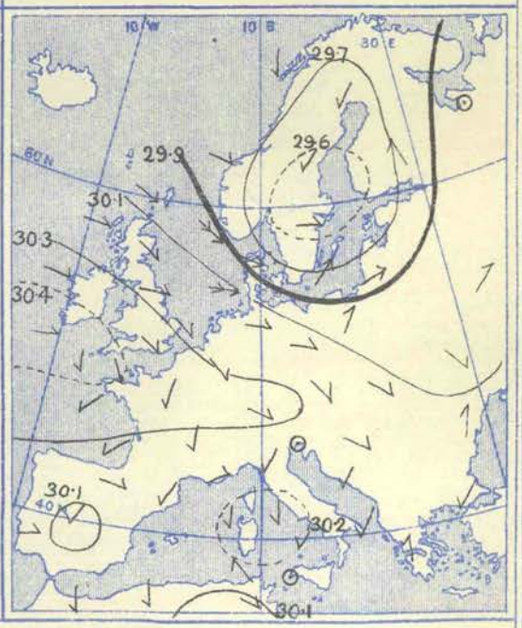
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair throughout our Islands and at most of the Continental stations. Dull or cloudy over northern Europe, with fog at Hango, and rain in a few places. Rain later in small amounts over Scotland and the north-east of England, but in larger quantities over northern Russia and Sweden. Thunderstorms reported from Perpignan and Karlstad.

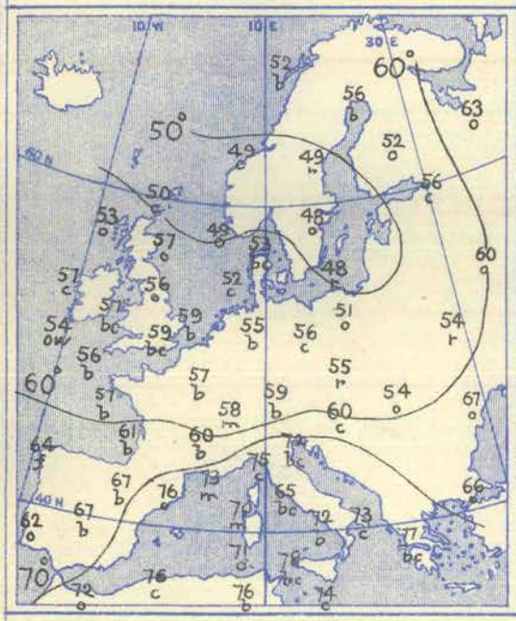
Temperature remaining rather low, though risen slightly at most stations, a fall of several degrees reported over Germany. Morning readings highest, 81° at San Fernando, 80° at Palma, 77° at Sfax, and 76° at Malta. Lowest, 40° at Christiansund and Sumburgh Head, 49° at Hernösand, 50° at Ulcaborg and Skudesnaes. Maxima during day, 72° in London, considerably above 70° over France and central Europe, exceeding 80° at some Mediterranean stations, and reaching 90° at Sanguinaires, 93° at Madrid, 97° at Aumale, and 102° at Tunis.

Wind Westerly to North-Westerly over our Islands and the North Sea, mainly Easterly at the majority of the Continental stations, and light in force. A complete cyclonic circulation shown over Scandinavia. No important change later, but wind becoming very variable over southern Europe.

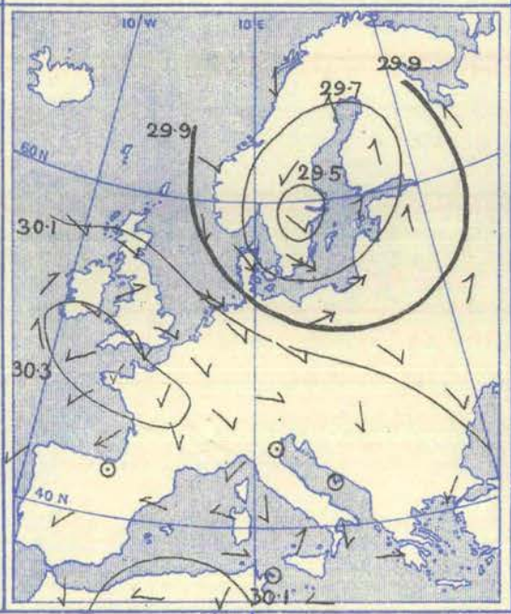
Barometer rising over our Islands and on the Continent generally, falling at the Scandinavian stations. Highest, 30·4 ins. and upwards over the south-western part of the British Islands, the Channel, and the north of France. Lowest, 29·7 ins. and less in a shallow disturbance over central Scandinavia. Pressure beginning to give way over our Islands later, and Scandinavian disturbance travelling slowly to the eastward.

Thursday, 23rd June, 1904.

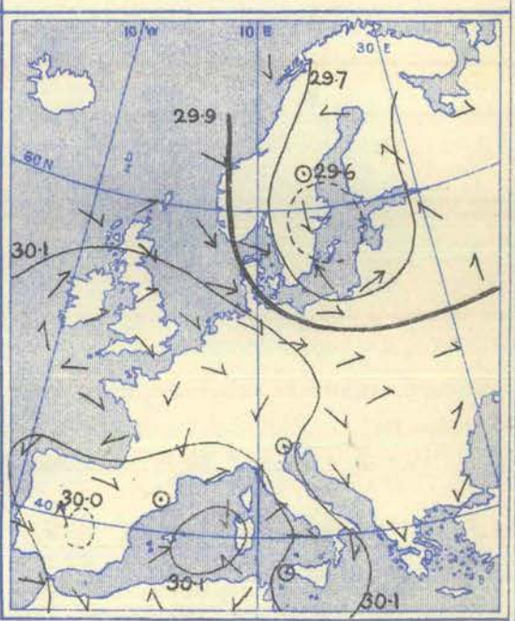
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m fair or fine over England, Ireland, and nearly the whole of western and southern Europe, generally cloudy or overcast elsewhere, with rain at Hernösand, Wisby, Cracow, and Kiev; fog at Corunna. In the course of the day small quantities of rain falling in parts of Ireland and Scotland, and at isolated stations abroad, 0·6 in. at Lemberg and 0·9 in. at Moscow. Thunder reported at Perpignan, fog at Laghouat and Hernösand.

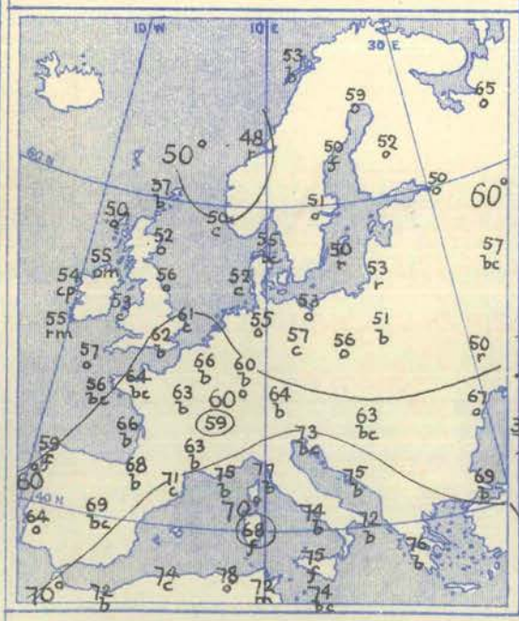
Temperature in morning risen a little in most parts of our Islands, western, central, and southern Europe, Norway, and the extreme north of Russia, fallen in other localities. Highest 8 a.m. values, 78° at Palermo, 77° at Athens and Aumale, and 76° at Algiers, La Calle, and Barcelona; in our Islands, 63° at Jersey, and 60° at Clacton and Dungeness; 63° at Archangel. Lowest, 48° and 49° at most of the Scandinavian stations. Rising during the day to 99° at Ile d'Aix and Laghouat, 97° at Aumale and Belfort, and 90° at Sanguinaires; 72° in London, and 71° at Oxford; but only 52° at Skudesnaes, and 50° at Christiansund.

Wind at 8 a.m. showing an anticyclonic circulation over our Islands and western Europe, and generally light in force; a cyclonic circulation over northern and eastern Europe, blowing strongly from West and North-West over southern Scandinavia and the Baltic region, a fresh gale at Wisby, and a strong gale at Fanö. No important change taking place during the day beyond some diminution in the strength eastward of the North Sea.

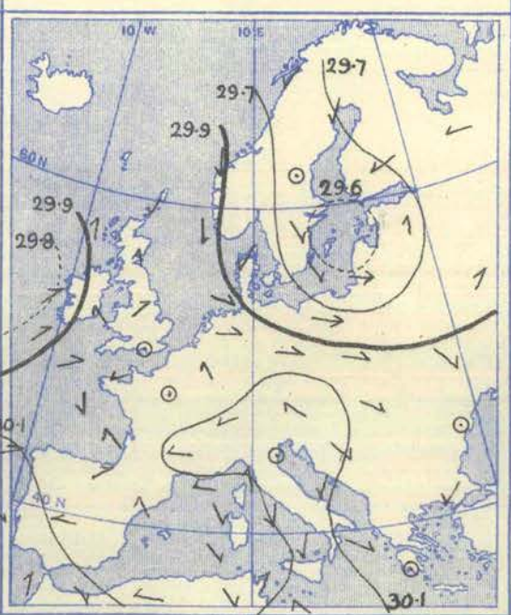
Barometer in morning highest, 30·3 ins. and upwards in the central space of an anticyclone occupying a considerable portion of Ireland, England, and the north of France. Lowest, below 29·5 ins. at the centre of a depression on the coast of Sweden, near Stockholm. The general distribution of pressure undergoing little modification later, the two systems remaining stationary, but the barometer giving way in the high and rising in the low area.

Friday, 24th June, 1904.

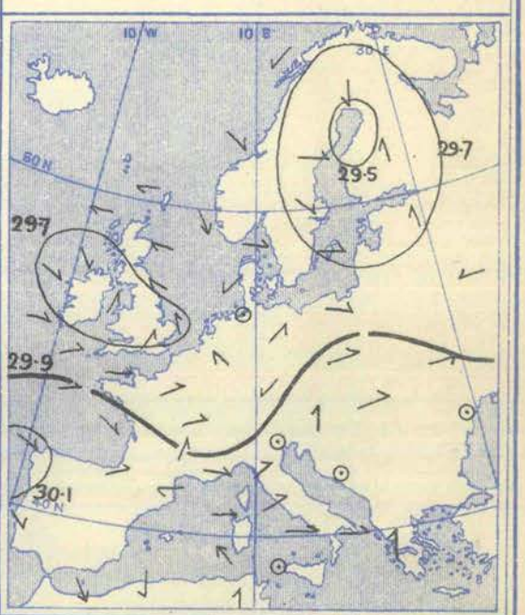
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. dull or cloudy over our area generally, but fine in the extreme south. Rainy in the west of Ireland, at Christiansund, Wisby, Memel, and Kiev, and foggy at Corunna and Bilbao. Considerable rain falling later throughout our Islands generally, and as much as 1·04 ins., accompanied by thunder and lightning, at North Shields. Heavy rain—more than an inch—in the Netherlands and north-east of France, and thunderstorms in the east and south-east of France.

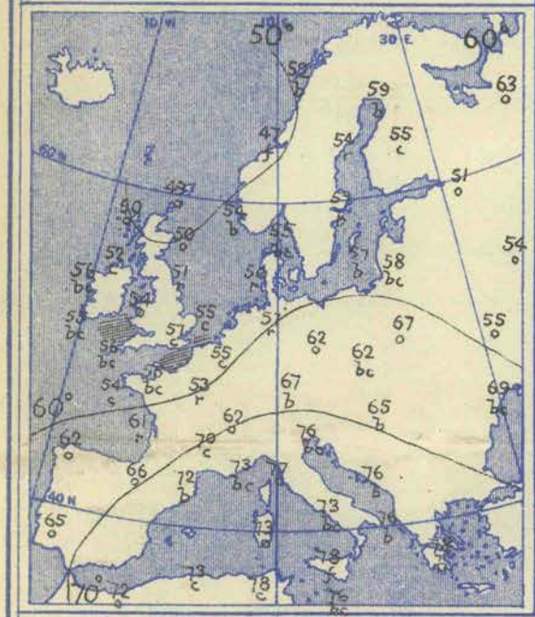
Temperature fallen or changed little and irregularly. Morning readings highest, (1) 80° at Palma, 78° at La Calle, 76° in Greece, and above 70° at most of the southern stations, (2) 65° at Archangel and 62° at Ulleaborg. Lowest, 48° at Christiansund, 49° at Karlstad, 50° at Stornoway and St. Petersburg, 51° at Warsaw, and 52° at Lemberg. Rising during day to 95° at Tunis, 89° at Florence, and to above 80° in the south generally. Maxima below 60° in some parts of Ireland, Wales, and Scotland, but thermometer rising to 66° in the north of Sweden

Wind at 8 a.m. light from the Southward or South-Westward over the United Kingdom, light and anticyclonic over central Europe and Italy, and cyclonic over the northern countries; Westerly current fresh or strong over Denmark and North Germany, but not much force elsewhere. Not much change later on the Continent, but a complete cyclonic circulation setting in over our Islands.

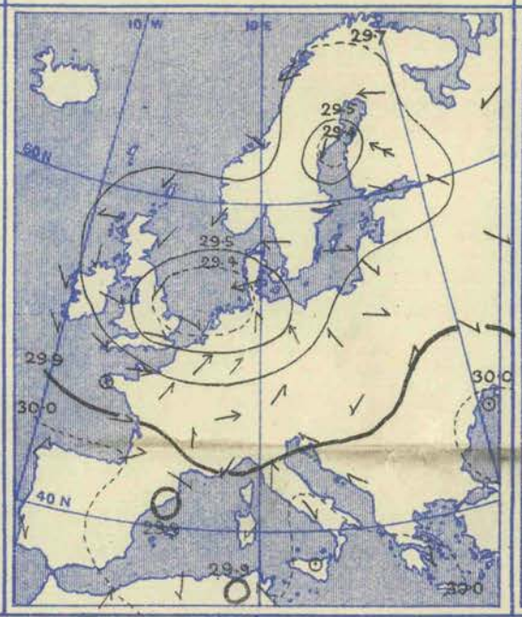
Barometer fallen decidedly over our Islands and their neighbourhood. Morning readings ranging from above 30·1 ins. in an anticyclone extending from central Europe, across Italy to the Mediterranean, to less than 29·8 ins. in a depression off our north-west coasts, and to below 29·6 ins. in another having its centre over the Islands of Dago and Œsel. Pressure giving way briskly over England during day, and an irregularly shaped depression appearing over our Islands and the Netherlands. Northern depression travelling northwards to the north-west of Finland.

Saturday, 25th June, 1904.

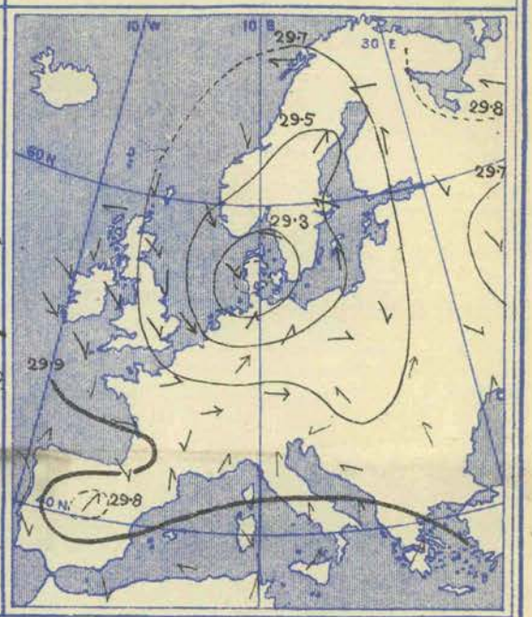
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in the extreme south and north of our area; cloudy or overcast in nearly all other places, with rain in the west and north of France, the north-east of England, Holland, Denmark, at Aix-la-Chapelle, Helsingfors, and Hernösand. Rain experienced later except in the most southern regions—more than 0·5 in. in Denmark and Germany, and more than an inch at Besançon and Berne.

Temperature fallen generally, but risen over central Europe and Sweden. Morning readings ranging from 78° at Athens, Palermo, and Barcelona, and but little lower at many stations in the south, to 63° at Archangel, 53° at Paris, 51° over the Gulf of Finland, and to 50° or a little lower in Scotland. Maxima below 60° at most of our own stations, and only 64° in Brittany, but thermometer rising to 68° at Haparanda and to above 80° in southern Europe and Austria-Hungary. Highest values 97° at Aumale, 95° at Brindisi, and 91° at Athens.

Wind at 8 a.m. showing two separate cyclonic circulations—one around the Gulf of Bothnia, and the other around the North Sea. Westerly current fresh or strong over England, Southerly wind strong in Germany, and East-North-Easterly wind blowing a strong gale at Fanö. Easterly wind also fresh or strong to a gale in the far north of Europe. Easterly gales subsiding later, but a North-West gale springing up on the Dutch coast.

Barometer at 8 a.m. highest, 30·0 ins. and upwards in various parts of southern Europe. Lowest, 29·4 ins. and less, (1) in a depression over the southern half of the North Sea, and (2) in another disturbance near Hernösand. North Sea minimum travelling eastwards to Denmark during day and increasing considerably in depth. Disturbance near Hernösand remaining almost stationary and becoming incorporated with the more important system further south.

IV.—GENERAL NOTES, etc.

During the greater part of the week a long band of high pressure extended eastwards from the Atlantic across France and our southern counties to central Europe, while the only regions immediately affected by depressions were in the far north and south of our area. The Westerly current of wind accompanying this distribution of pressure was often fresh or strong over the more northern countries, and increased to a gale at times on the Norwegian and Danish coasts. Towards the end of the week the barometer fell briskly over the western countries, the highest pressure becoming established over the central regions, while a depression, which subsequently increased greatly in depth and moved eastwards to Denmark, appeared over the United Kingdom. This disturbance brought very unsettled weather to the whole of north-western Europe, a brisk or strong current of wind from between North and West over these Islands and their vicinity, accompanied by a fall of temperature, and a strong gale from the Eastward in Denmark. Before the arrival of this system little rain had fallen except in Scandinavia, but under its influence some considerable amounts were experienced over all the north-western countries, especially over the Netherlands and in the north-east of England.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 146.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNESS	27·6	− 6·8	22	− 5
STRATHPEFFER SPA	18·2	− 19·0	15	− 15
CRATHES	28·3	—	23	—
EDINBURGH	26·0	− 8·0	22	− 7
COCKLE PARK	31·5	—	26	—
NEWCASTLE-ON-TYNE	23·8	—	20	—
YORK	22·5	− 17·3	19	− 15
SKEGNESS	36·4	—	31	—
CROMER	47·3	—	40	—
LOWESTOFT	41·5	—	36	—
DUNMOW	54·0	—	47	—
SHEFFIELD	31·9	—	27	—
WORKSOP	27·3	− 10·1	23	− 9
HURCASTON	34·6	− 5·7	30	− 5
MARGATE	53·1	+ 9·7	46	+ 9
BROADSTAIRS	—	—	—	—
RAMSGATE	51·6	—	45	—
EASTBOURNE	66·3	+ 14·7	58	+ 13
BRIGHTON	61·0	+ 8·6	54	+ 8
WORTHING	—	—	—	—
BOGNOR	60·1†	—	53†	—
WESTBOURNE	66·9†	+ 16·9	59†	+ 15
VENTNOR HOSPITAL	49·9	+ 3·9	44	+ 3
BOURNEMOUTH	54·4	—	48	—
MARLBOROUGH	36·1	− 7·6	31	− 7
SOUTHPORT	27·9	—	24	—
RHYL	24·6	—	21	—
ABERDOVEY	40·6†	—	35†	—
TENBY	50·0	− 3·3	44	− 3
TORQUAY	55·5	+ 0·9	49	+ 1
NEWQUAY	55·4	+ 2·9	49	+ 3
GUERNSEY	77·5†	+ 18·7	69†	+ 17

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

Reports received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending May 28th, 1904.	Bawtry	74	—	63·4	—	—	—	—	—	4	0·47	+ 0·02	—	—	—	—
,, ,, June 4th ,,	,,	70	—	65·4	—	—	—	—	—	3	0·56	+ 0·09	—	—	—	—
,, ,, ,, ,,	Laudale	78	43	71·4	47·8	58·8	+ 5·9	48	0	2	0·21	− 0·69	—	—	—	—
,, ,, ,, 18th, ,,	Lairg	67	34	61·9	45·1	52·9	+ 0·4	76	0	7	0·72	+ 0·20	—	—	—	—
,, ,, ,, ,,	Tenby	—	—	—	—	—	—	—	—	—	—	—	37·3	− 17·3	32	− 15

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 26. TWENTY-SIXTH WEEK, ENDING SATURDAY, JULY 2ND, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 152.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	75	32	61·9	45·9	53·4	0 (average)	80	+ 1	0	0	711	− 39	477	− 72
	1. SCOTLAND, EAST	78	34	63·6	45·7	54·0	2 below	84	−10	0	0	792	−133	585	− 7
	2. ENGLAND, N.E.	78	38	65·0	47·5	55·6	2 below	95	− 9	0	0	948	− 11	431	− 59
	3. ENGLAND, EAST	77	37	66·9	47·9	56·7	2 below	103	−15	0	0	1071	− 96	404	−131
	4. MIDLAND COUNTIES	79	34	69·5	45·4	56·6	2 below	102	−13	0	0	1013	−180	474	− 73
	5. ENGLAND, SOUTH	78	37	67·7	49·6	58·0	2 below	112	−12	0	0	1122	−165	345	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	75	36	65·3	46·6	55·3	1 below	93	− 6	0	0	878	−119	375	− 42
	7. ENGLAND, N.W.	76	39	66·5	48·9	57·1	1 below	106	− 2	0	0	930	−140	386	− 13
	8. ENGLAND, S.W.	77	40	66·3	48·8	57·0	2 below	105	− 9	0	0	1131	−102	252	− 53
	9. IRELAND, NORTH	71	35	62·2	48·5	54·9	1 below	90	−11	0	0	916	−176	337	− 20
	10. IRELAND SOUTH	72	42	64·0	50·1	56·6	1 below	102	− 9	0	0	1148	−133	232	− 24
	— CHANNEL ISLANDS	74	48	65·1	54·3	59·3	0 (average)	121	− 3	0	0	1363	− 50	80	− 41

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 152.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	4	3 less	121	+13	26·4	+ 4·6	48	+14	39	+12	645	− 10	28	0
	1. SCOTLAND, EAST	3	3	3 less	106	+13	13·9	+ 0·4	54	+16	44	+13	665	− 57	29	− 2
	2. ENGLAND, N.E.	2	2	3 less	92	+ 6	10·2	− 0·5	67	+26	57	+22	681	− 88	29	− 4
	3. ENGLAND, EAST	3	3	2 less	90	+ 2	9·9	− 0·4	74	+26	64	+23	757	99	33	− 4
	4. MIDLAND COUNTIES	2	2	4 less	99	+16	12·1	0·0	70	+33	61	+29	655	− 66	28	− 3
	5. ENGLAND, SOUTH	3	2	3 less	100	+18	14·0	+ 2·0	80	+34	70	+30	758	− 69	33	− 3
Principal Grazing Districts.	6. SCOTLAND, WEST	3	3	5 less	110	+15	24·5	+ 2·7	71	+31	60	+26	672	− 74	29	− 3
	7. ENGLAND, N.W.	3	2	4 less	104	+15	15·5	+ 1·4	76	+36	65	+30	705	− 17	30	− 1
	8. ENGLAND, S.W.	3	3	3 less	104	+13	18·8	+ 2·4	78	+28	69	+25	758	−121	33	− 5
	9. IRELAND, NORTH	4	5	2 less	125	+16	17·7	+ 2·1	44	+ 9	38	+ 8	651	− 69	28	− 3
	10. IRELAND, SOUTH	4	6	0 (average)	116	+17	20·2	+ 2·0	50	+11	43	+ 9	709	− 96	31	− 4
	— CHANNEL ISLANDS	3	2	3 less	118	+23	18·3	+ 4·5	88	+32	79	+29	901	−102	39	− 5

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather. The major part of the week was fair over Great Britain, but towards the end of the time the conditions became less settled, and showers were very general. Thunderstorms were experienced in a few places on June 26th, while on July 2nd they were common over the eastern counties both of England and Scotland. In Ireland the weather was of a rather more disturbed character, especially in the west.

Temperature just equalled the mean in Scotland N. and the Channel Islands, but was one or two degrees below it in all other districts. The highest of the maxima occurred on June 30th, when they ranged from 79° in the Midland Counties and 78° in England S., England N.E., and Scotland E., to 74° in the Channel Islands and 71° in Ireland N. The lowest of the minima were recorded on June 28th, and ranged from 32° in Scotland N., 34° in Scotland E. and the Midland Counties, and 35° in Ireland N., to 40° in England S.W., 42° in Ireland S., and 48° in the Channel Islands.

Rainfall was considerably less than the mean over the Kingdom as a whole, but just equalled it in Ireland S.

Bright Sunshine was very abundant. The percentage of the possible duration ranged from 79 in the Channel Islands, 70 in England S., and 69 in England S.W., to 39 in Scotland N., and to 38 in Ireland N. The highest percentage at any individual station was 87 at Guernsey, and the lowest, 27 at Markree Castle.

Barometer and Wind. At the commencement of the week barometrical pressure was highest in the west and south-west, and lowest to the eastward of the North Sea, the resulting Northerly to Westerly winds being light or moderate in force. The western high pressure moved slowly eastwards across our Islands in the form of an irregularly shaped anticyclone, the wind at the same time shifting to the Southward or South-Eastward. By Friday morning the centre of a rather deep depression had arrived off the north of Ireland, and the wind on our western coasts had increased considerably in force from the South-Westward. This system subsequently moved away north-eastwards, and the wind became light to moderate or fresh from South-West or West over the Kingdom generally.

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Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	58	43	53·3	45·4	49·1	- 1·9	50	0	2	0·04	- 0·44	*	*	*	*
	Stornoway	69	41	62·9	46·7	54·2	+ 1·1	85	0	4	0·46	- 0·15	40·4	+ 2·8	32	+ 2
	Wick	63	34	57·9	45·3	51·2	- 2·2	64	0	3	0·38	- 0·09	*	*	*	*
	Lairg Ⓢ	75	32	65·3	43·1	53·4	0·0	80	0	2	0·12	- 0·47	*	*	*	*
	Glencarron Ⓢ	73	40	65·1	47·4	55·6	+ 1·5	95	0	3	0·27	- 0·97	*	*	*	*
	Fort Augustus Ⓢ	75	38	64·0	46·6	54·7	- 0·8	89	0	3	0·17	- 0·43	48·4	+ 21·9	39	+ 18
	Fort William	72	40	64·8	47·0	55·3	- 0·2	93	0	3	1·31	+ 0·28	61·4	+ 28·8	53	+ 24
1. SCOTLAND, E.	Nairn	78	34	64·9	45·6	54·6	- 1·1	88	0	3	0·09	- 0·41	*	*	*	*
	Aberdeen	66	38	58·9	46·6	52·3	- 2·9	72	0	3	0·51	- 0·01	39·2	- 1·8	32	- 1
	Braemar Ⓢ	70	38	61·5	43·6	51·9	- 1·3	69	0	4	0·33	- 0·26	*	*	*	*
	Ochtertyre Ⓢ	74	38	67·9	44·9	55·6	- 1·4	95	0	3	0·32	- 0·37	*	*	*	*
	Leith	78	43	65·0	47·7	55·8	- 1·3	97	0	4	0·39	- 0·13	*	*	*	*
	Marchmont Ⓢ	74	42	63·4	45·9	54·0	- 1·1	84	0	2	0·21	- 0·47	66·4	+ 26·2	55	+ 22
2. ENGLAND, N.E.	Alnwick Castle	68	43	62·2	46·3	53·7	- 1·7	82	0	3	0·18	- 0·36	*	*	*	*
	Durham	72	38	64·9	46·0	54·8	- 2·3	90	0	3	0·28	- 0·26	72·6	+ 34·2	61	+ 29
	Shields	68	45	63·3	48·3	55·3	- 0·6	93	0	4	0·23	- 0·25	*	*	*	*
	Scarborough Ⓜ	67	46	61·9	48·8	54·9	- 2·2	90	0	1	0·11	- 0·43	64·2	—	54	—
	Spurn Head	70	48	62·3	51·1	56·3	- 1·3	100	0	2	0·25	- 0·11	*	*	*	*
	Lincoln	77	41	69·6	46·3	57·1	- 2·4	106	0	2	0·12	- 0·36	*	*	*	*
	Fulbeck (Lincolnshire)	78	39	70·5	45·5	57·1	- 1·7	106	0	2	0·14	- 0·33	70·3	—	61	—
3. ENGLAND, E.	Hillington Ⓜ	77	38	71·0	44·2	56·7	- 2·2	103	0	3	0·31	- 0·25	77·1	+ 32·1	67	+ 28
	Yarmouth	72	43	63·0	50·7	56·4	- 1·8	101	0	2	0·15	- 0·36	*	*	*	*
	Geldeston	73	37	67·4	43·8	54·8	- 3·8	90	0	1	0·08	- 0·39	69·4	+ 21·0	60	+ 18
	Cambridge	74	38	69·9	45·3	56·7	- 3·2	103	0	3	0·40	- 0·10	72·5	+ 26·5	63	+ 23
	Felixstowe	72	42	64·0	50·9	57·0	- 1·5	105	0	2	0·29	—	72·3†	—	63†	—
	Clacton-on-Sea	71	42	64·4	52·0	57·8	- 1·6	111	0	2	0·12	—	74·3†	—	65†	—
	Rothamsted	73	40	69·2	45·1	56·3	- 2·5	100	0	5	0·28	- 0·25	71·8	+ 25·7	62	+ 22
	Shoeburyness	72	44	66·3	51·1	58·2	- 1·2	113	0	2	0·37	0·00	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	72	42	66·3	45·8	55·3	- 1·1	93	0	3	0·56	- 0·07	60·2	—	51	—
	Bawtry (Hesley Hall)	77	34	70·0	42·7	55·4	- 3·3	94	0	2	0·28	- 0·27	*	*	*	*
	Nottingham	77	35	70·7	45·1	57·0	- 2·4	105	0	1	0·03	- 0·52	65·1	—	56	—
	Colly Weston (Stamford)	79	40	72·0	45·7	57·9	- 1·5	111	0	1	0·29	- 0·20	*	*	*	*
	Cheadle Ⓜ	74	44	67·0	48·3	57·0	+ 0·3	105	0	3	0·11	- 0·56	*	*	*	*
	Birmingham (Edgbaston)	75	44	69·0	47·6	57·6	- 0·5	109	0	2	0·13	- 0·47	70·5	—	61	—
	Shrewsbury	75	37	69·7	43·6	55·7	- 3·4	96	0	3	0·05	—	*	*	*	*
	Hereford Ⓜ	75	40	70·0	44·2	56·2	- 2·9	99	0	1	0·11	- 0·37	*	*	*	*
	Cirencester	76	39	69·6	42·9	55·3	- 2·7	93	0	4	0·45	- 0·11	81·0	+ 35·8	70	+ 31
	Oxford	76	44	70·6	47·6	58·3	- 1·4	114	0	3	0·12	- 0·41	80·3	+ 34·8	70	+ 30
5. ENGLAND, S.	London	78	46	71·3	49·7	59·8	- 1·2	125	0	3	0·24	- 0·23	67·4‡	+ 25·3‡	59‡	+ 22‡
	Wisley (Surrey)	77	42	69·8	47·0	57·6	- 4·4	109	0	3	0·45	—	78·8	—	69	—
	Swarraton (Alresford) Ⓜ	76	37	69·3	45·2	56·4	- 1·3	101	0	3	0·17	- 0·35	*	*	*	*
	Tunbridge Wells Ⓜ	76	45	68·9	47·2	57·3	- 2·7	107	0	3	0·24	—	78·3	--	69	—
	Dungeness	70	45	64·6	52·4	58·1	- 1·2	113	0	2	0·02	- 0·31	77·6	—	68	—
	Hastings (St. Leonards)	69	49	65·2	52·2	58·3	- 0·9	114	0	1	0·05	- 0·38	84·0	+ 31·1	74	+ 28
	Southampton	74	47	70·3	51·5	60·3	- 0·6	128	0	3	0·25	- 0·24	86·7	+ 36·8	76	+ 32
	Portland Bill	65	49	63·1	52·7	57·5	- 0·8	109	0	2	0·05	—	*	*	*	*
	Shaftesbury Ⓜ	72	44	66·9	48·6	57·1	- 0·6	106	0	3	0·24	- 0·33	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	72	37	65·3	46·8	55·4	- 0·9	94	0	3	0·41	- 0·63	*	*	*	*
	Glasgow	73	44	66·3	48·2	56·6	+ 0·3	102	0	4	0·52	- 0·16	65·9	+ 31·1	55	+ 26
	Cally Ⓢ	70	36	65·9	44·3	54·4	- 1·6	87	0	3	0·34	- 0·45	*	*	*	*
	Aspatria	75	41	66·4	47·6	56·4	+ 0·3	101	0	3	0·21	—	69·6	—	59	—
	Douglas (Isle of Man)	68	38	62·6	46·1	53·8	- 2·3	83	0	1	0·03	- 0·57	78·5	+ 30·7	67	+ 26
7. ENGLAND, N.W.	Newton Rigg	72	40	65·5	45·4	54·8	- 1·2	90	0	4	0·34	—	68·8	—	58	—
	Stonyhurst	72	42	65·2	49·0	56·5	- 0·7	102	0	3	0·43	- 0·41	75·7	+ 33·1	65	+ 28
	Blackpool Ⓜ	76	39	67·0	49·9	57·9	- 0·2	111	0	1	0·08	- 0·49	76·8	+ 33·7	66	+ 29
	Manchester (Prestwich)	75	41	68·1	47·9	57·3	0·0	107	0	3	0·40	- 0·35	68·5	—	59	—
	Liverpool Obsy. (Bidston)	76	47	66·3	51·3	58·3	- 0·4	114	0	2	0·07	- 0·47	76·8	—	66	—
	Chester (Hawarden Bridge)	76	41	67·6	48·7	57·5	- 1·2	109	0	3	0·29	—	*	*	*	*
	Llandudno Ⓜ	76	46	66·8	51·6	58·7	+ 0·1	117	0	2	0·06	- 0·44	83·2	+ 39·6	71	+ 34
	Holyhead	72	46	64·4	50·9	57·2	- 0·2	106	0	3	0·13	- 0·36	*	*	*	*
	Bettws-y-Coed	74	39	67·4	45·3	55·6	- 2·8	95	0	3	0·20	—	71·5	—	62	—
8. ENGLAND, S.W.	Pembroke	64	49	60·3	52·0	55·9	- 1·2	97	0	3	0·26	- 0·22	82·7	+ 32·2	72	+ 28
	Clifton	77	46	70·1	50·3	59·5	+ 0·5	123	0	2	0·37	- 0·20	*	*	*	*
	Bath	74	41	69·0	46·7	57·1	- 2·7	106	0	3	0·09	- 0·45	84·2	—	74	—
	Arlington (N. Devon)	69	43	65·4	46·7	55·4	- 1·4	94	0	3	0·67	- 0·16	*	*	*	*
	Cullompton Ⓜ	75	40	70·0	43·6	55·9	- 3·5	97	0	3	0·10	- 0·46	66·9	+ 22·3	59	+ 20
	Falmouth	66	50	64·0	51·4	57·3	- 1·4	107	0	4	0·29	- 0·31	80·3	+ 27·5	71	+ 24
	Plymouth	70	47	65·6	50·7	57·6	- 2·1	109	0	3	0·26	- 0·26	75·1	+ 26·2	66	+ 23
9. IRELAND, N.	Malin Head	69	47	60·9	49·0	54·5	- 1·3	88	0	3	0·37	- 0·21	*	*	*	*
	Edenfel (Omagh)	71	35	63·7	45·7	54·1	- 1·7	85	0	3	0·59	- 0·11	*	*	*	*
	Blacksod Point	63	49	59·7	52·1	55·6	- 1·1	95	0	5	0·71	+ 0·07	*	*	*	*
	Markree Castle	69	35	63·5	47·8	55·1	- 0·7	92	0	4	0·34	- 0·43	31·7	- 2·5	27	- 2
	Armagh	68	40	64·5	47·7	55·5	- 1·0	95	0	3	0·18	- 0·45	56·6	+ 20·6	48	+ 18
	Donaghadee	66	45	61·0	48·4	54·3	- 2·0	86	0	3	0·72	+ 0·15	*	*	*	*
10. IRELAND, S.	Dublin	72	45	66·7	50·6	58·1	- 0·6	113	0	3	0·07	- 0·43	74·2	+ 32·5	63	+ 28
	Birr Castle	70	46	65·3	49·6	56·9	- 0·4	104	0	4	0·28	- 0·33	38·5	+ 2·9	33	+ 3
	Kilkenny	67	44	63·9	49·0	55·9	- 1·9	97	0	3	0·19	- 0·37	*	*	*	*
	Waterford	68	42	63·9	48·7	55·8	- 2·3	97	0	2	0·65	+ 0·01	*	*	*	*
	Roche's Point	63	48	61·7	51·9	56·5	- 2·0	102	0	4	0·36	- 0·31	*	*	*	*
	Valencia	63	44	60·7	51·1	55·6	- 2·0	95	0	6	2·39	+ 1·56	37·0	- 3·6	32	- 3
	Killarney	68	45	64·4	50·6	57·0	- 0·2	105	0	2	0·31	- 0·41	*	*	*	*
	Foynes	67	47	65·5	49·6	57·0	- 0·1	105	0	4	0·59	- 0·04	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	53	62·9	54·6	58·5	- 0·2	116	0	3	0·28	- 0·17	73·6	+ 20·0	65	+ 18
	Jersey	74	48	67·3	53·9	60·1	- 0·4	127	0	3	0·05	- 0·41	93·5	+ 37·1	84	+ 33

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

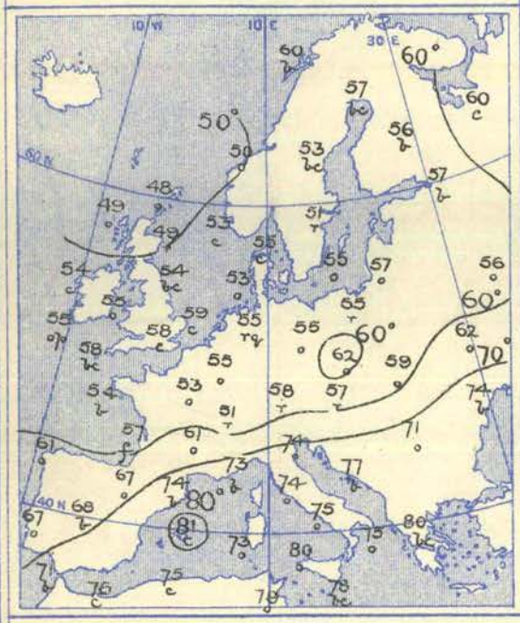
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake

Sunday, 26th June, 1904.

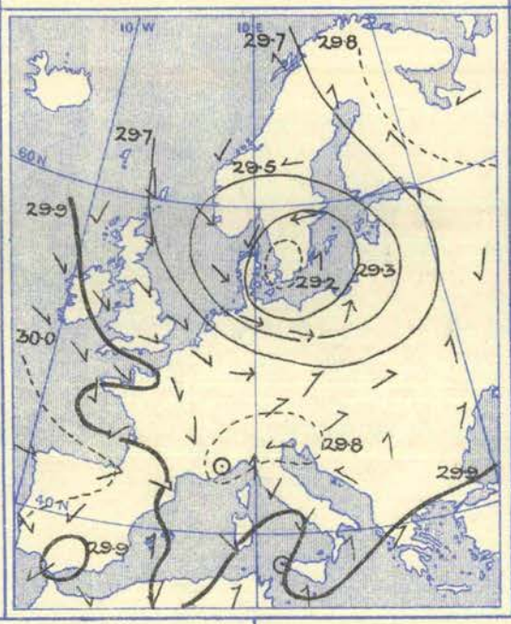
Temperature and Weather.

8 a.m.

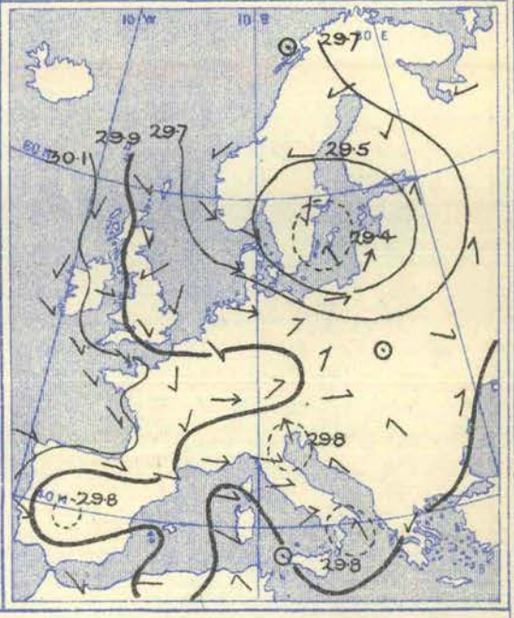


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. fair in many parts of our Islands and at some stations in the extreme north of Europe, but cloudy or overcast as a whole, with rain at Aberdeen, in the south of Sweden, many parts of Germany, and at Belfort. Rain experienced later in most parts of central and northern Europe, and thunderstorms occurring in the south-east of England.

Temperature changed irregularly. Morning readings ranging from 81° at Palma, and very little lower at many other southern stations, to 66° at Archangel, 60° at Bodö, 53° at Paris, and 49° or 48° in the north of Scotland. Maxima rather low over these Islands and their neighbourhood, but as high as 72° at Haparanda, and some degrees above 80° over southern Europe. Highest values, 100° at Brindisi, 93° at Madrid, 92° at Pesaro and Cagliari, and 91° at Nice.

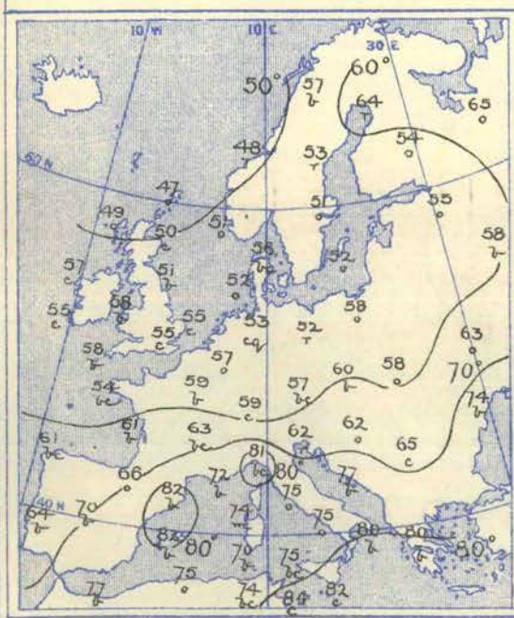
Wind at 8 a.m. showing a well-defined cyclonic circulation over the northern countries, strong in force over the Baltic, Denmark, North Germany, and the south of Sweden. Light or moderate breezes from various directions prevailing over the Mediterranean and its vicinity. Some decrease in force occurring at many northern stations during day, but little other change.

Barometer at 8 a.m. highest, above 30·0 ins. over the north of Spain and the adjacent portion of the Atlantic. Lowest, less than 29·2 ins. in a depression over the south of Sweden; relatively low, 29·8 ins. and less in a shallow disturbance over the north of Italy. Swedish depression moving slowly eastwards during day and decreasing somewhat in intensity. Some local irregularities of pressure appearing over the United Kingdom, and a distinct minimum over central Spain.

Monday, 27th June, 1904.

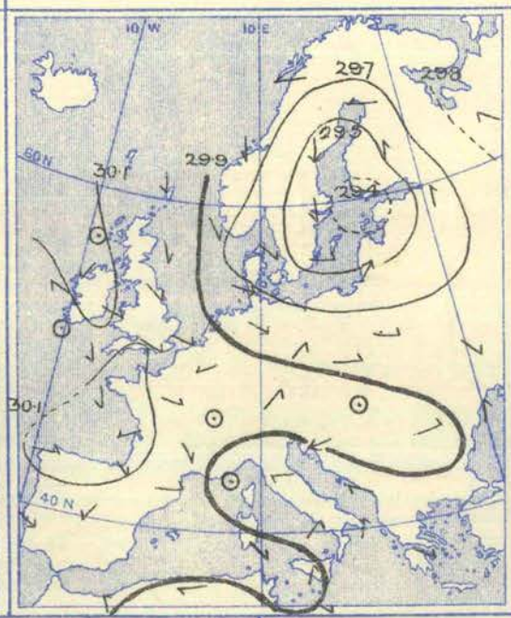
Temperature and Weather.

8 a.m.

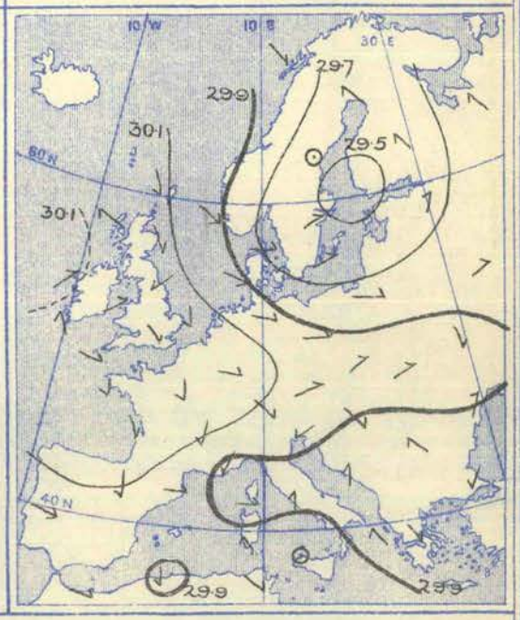


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. varying a good deal. Fine and bright over the United Kingdom and the south-west of Europe, as well as in many central and southern regions. Rainy in several parts of Scandinavia, and at Helsingfors, Berlin, and Trieste. Very dull over Denmark and North Germany. Fine during day in most places, but continuing unsettled over the northern half of the Continent, with rain at several stations.

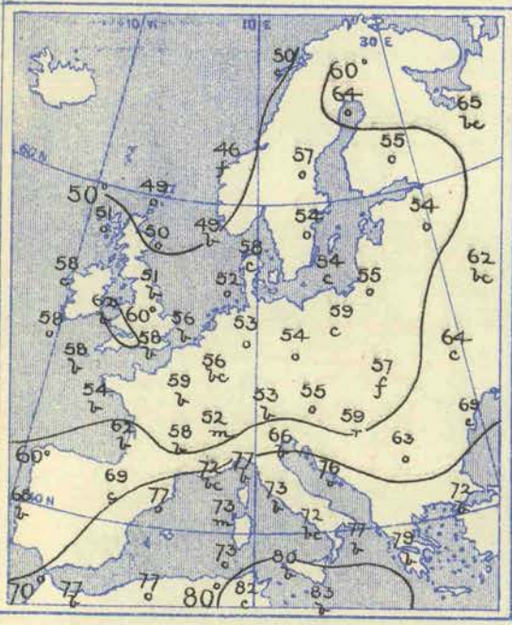
Temperature showing no general change. Readings at 8 a.m. highest, (1) 86° at Aumale, 84° at Tunis, and about 80° at several stations bordering the Mediterranean, (2) 65° at Archangel and Uleaborg, and 64° at Haparanda. Lowest, 47° at Sumburgh Head, 48° at Christiansund, 51° at North Shields, and 52° at Berlin. Maxima during day as high as 106° at Aumale, 95° at Cagliari, and about 90° or very little below it in many southern regions. Thermometer not touching 60° at some of our own northern stations and in North Germany, but rising to 70° at Haparanda. Minima during succeeding night as low as 35° at Nottingham, and 34° at Wick and Nairn.

Wind at 8 a.m. showing two general cyclonic circulations—one over northern Europe, and the other over Italy and its vicinity. Northerly current strong in Sweden, and Westerly current strong to a moderate gale over Denmark and the Baltic. Little force elsewhere. Not much change in direction later, but some decrease in the strength of the Northerly and Westerly winds taking place.

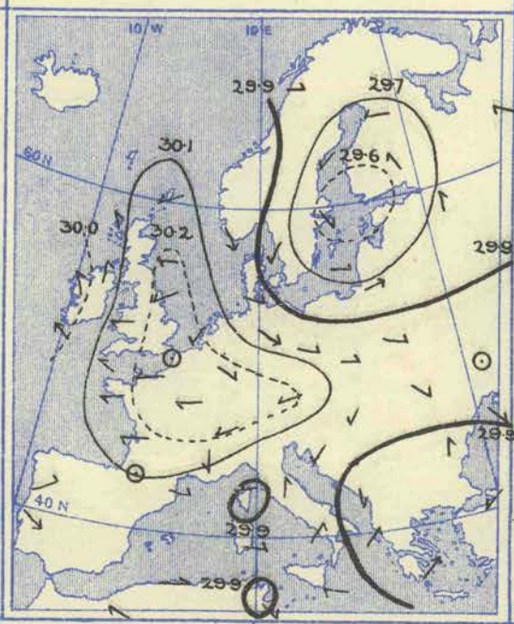
Barometer risen decidedly over the western and central countries, fallen in Sweden and Finland. Morning readings ranging from 30·1 ins. and upwards in a feeble anticyclone over the Bay of Biscay and the west of France, and in another over Ireland, to less than 29·2 ins. in a small minimum near Nice, and to below 29·4 ins. in a larger system over the south-west of Finland. Anticyclonic systems coalescing during day and expanding in an easterly direction. Cyclonic disturbances undergoing scarcely any change.

Tuesday, 28th June, 1904.

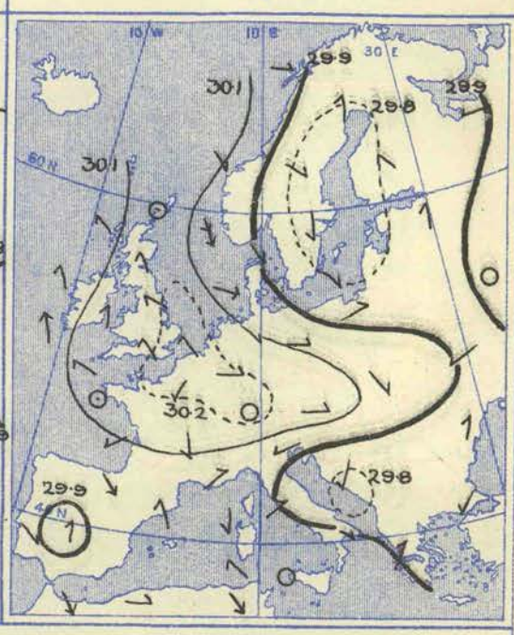
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine in most regions, but dull over northern Europe, Germany, and Austria-Hungary, with rain at Swinemünde and Buda-Pesth. Continuous rain setting in over the west of Ireland during day, the measurement at Valencia being 1·46 ins. Some rain falling in the northern countries and in Poland, and a thunderstorm occurring at Biarritz.

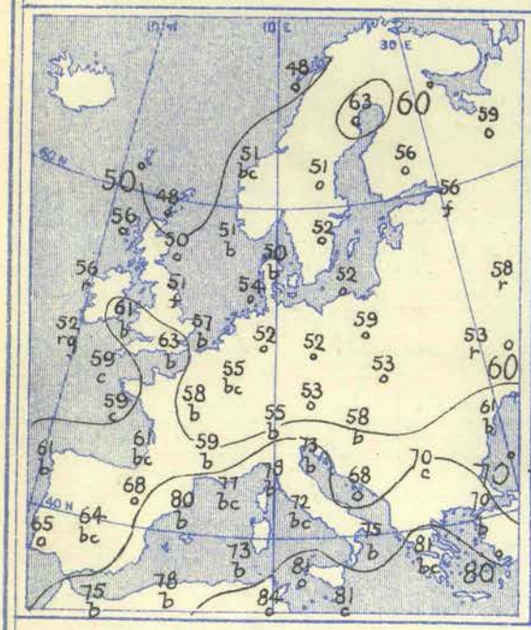
Temperature changed irregularly. Morning readings highest, 83° at Malta, and above 70° at all the Mediterranean stations; as high as 65° at Archangel and 64° at Haparanda. Lowest, 46° at Christiansund, 50° at Aberdeen, 51° at Nottingham, and 52° at Belfort. Rising subsequently to 74° over central England, 80° in the south of France, several degrees higher over Spain, Italy, and Greece, and to 111° at Tunis. Maxima only about 60° in Germany and below 70° over central Europe generally.

Wind at 8 a.m. circulating cyclonically over northern Europe, the North-Westerly current blowing a gale in Jutland. Light and rather variable over the greater part of southern Europe and the Mediterranean. Light from the Southward along our own west coasts, and from North-East in the east. Gale in Jutland subsiding by evening, but North-Westerly wind there continuing rather strong, and a North-North-West gale springing up on the south-west coast of Norway.

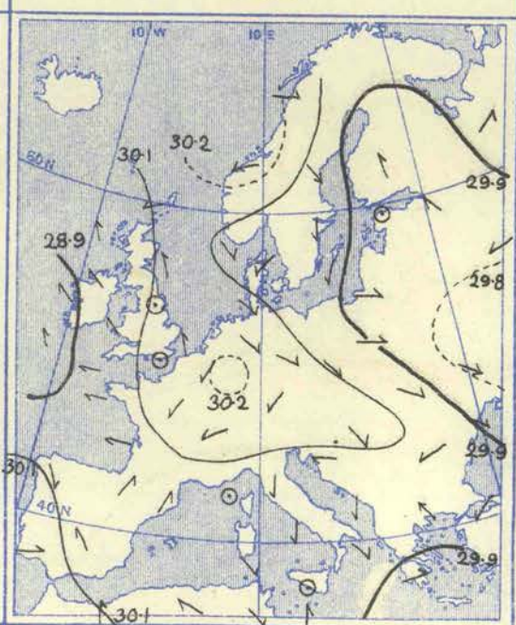
Barometer at 8 a.m. ranging from above 30·2 ins. in an anticyclone embracing England, Belgium, the north of France, and south-west of Germany, to 29·6 ins. and less in a depression centred over the south-west of Finland. Below 30·0 ins. in a depression off the west of Ireland, and below 29·9 ins. in some shallow minima over the Mediterranean and south-eastern Europe. Northern depression becoming less deep during day, and a high pressure system approaching Norway from the north-westward.

Wednesday, 29th June, 1904.

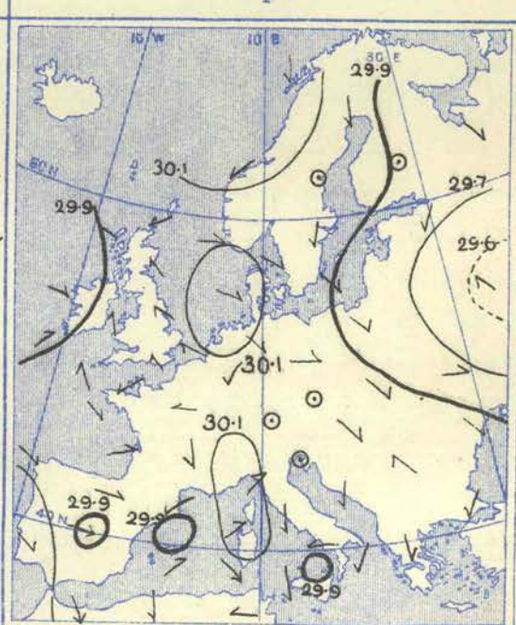
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. rainy on the west coast of Ireland, at Moscow, Kiev, and Memel, and dull in nearly all parts of northern and central Europe; fine generally elsewhere. Thunderstorms occurring later in several parts of France—as much as 1·3 ins. of rain at Gap and 1·7 ins. at Clermont. Rain also falling in the north of Spain and central Russia—0·9 in. at Moscow.

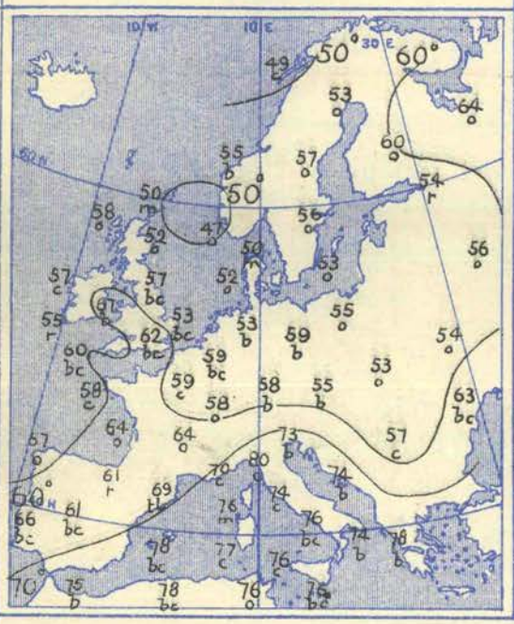
Temperature changed little and irregularly. Morning readings ranging from about 80° or a little below at many southern stations, to 65° at Liverpool, 63° at Haparanda, 52° at Berlin and Cracow, 50° at Aberdeen, and 48° at Sumburgh Head and Bodö. Rising during day to 66° at Haparanda, 77° at Nottingham and in London, 90° at Cette, 92° at Florence, 93° at Athens, and 99° at Sfax. Maxima below 60° at the Helder, the mouth of the Elbe, and on our extreme north-west and north coasts.

Wind in morning light from East or South-East over the United Kingdom and France, moderate from the Northward over the Gulf of Bothnia, and light and rather variable elsewhere. Not much change later, but wind falling light over the Gulf of Bothnia, and a feeble cyclonic circulation setting in over Brittany and Normandy.

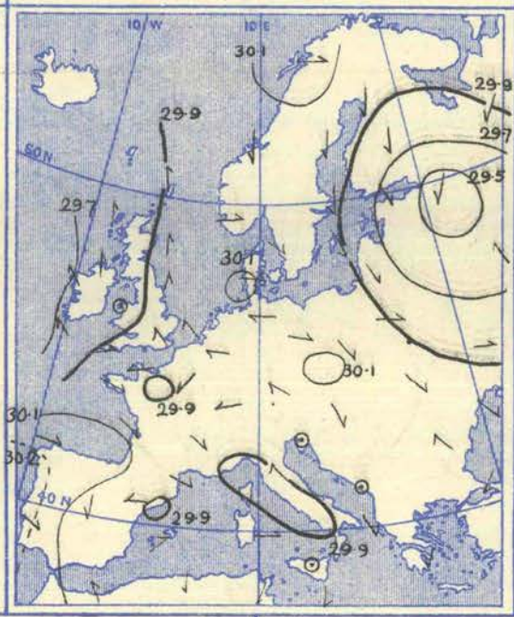
Barometer at 8 a.m. highest, 30·2 ins. and upwards in an anticyclone off the north-west of Norway, and but little lower in a large area embracing the North Sea, the eastern half of England, the Netherlands, and the greater part of Germany. Lowest, 29·8 ins. in a shallow depression over Little Russia, and 29·9 ins. and less (1) over the south of Greece, and (2) off the west of Ireland. Relatively low in a large depression over the western part of the Mediterranean, and in a smaller one over the Bay of Biscay. Latter system moving northwards later, and that over the Atlantic encroaching on our western and north-western districts.

Thursday, 30th June, 1904.

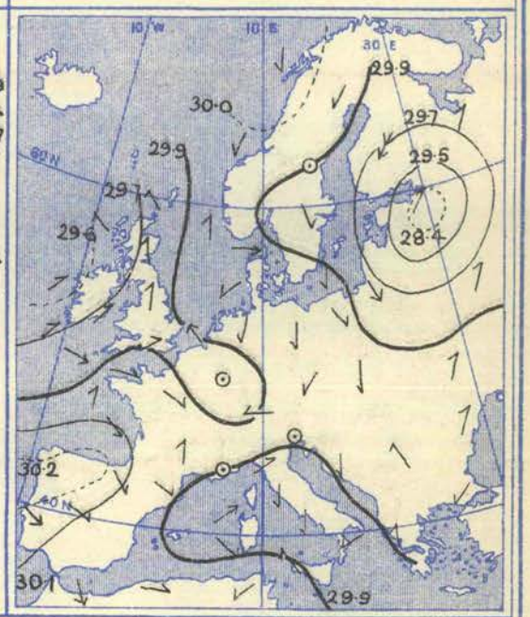
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over England, the north of France, and in various parts of southern and central Europe. A good deal of cloud prevailing elsewhere, rain falling at St. Petersburg, Valencia, and the south-west of France, and a thunderstorm in progress at Barcelona. Rain experienced later at most of our own stations and in various parts of the Continent—nearly an inch at Florence and Lyons, and 0·6 in. at Helsingfors.

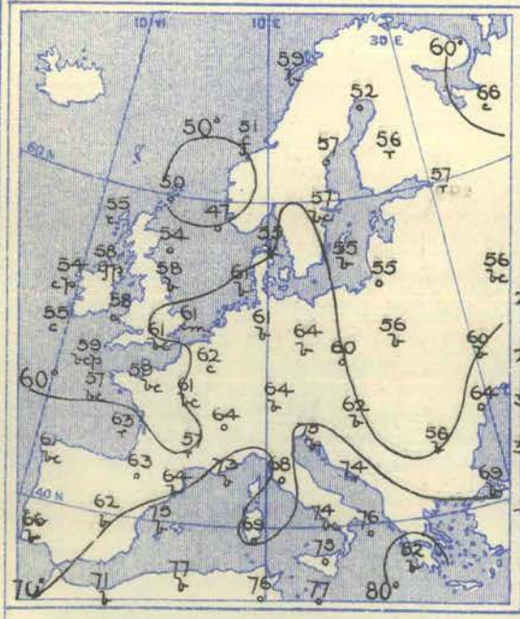
Temperature showing little change. Morning values highest, (1) 80° at Leghorn, 78° at Palma and in Greece, and above 70° at nearly all the southern stations, (2) 67° at Holyhead, (3) 64° at Archangel. Lowest, 47° at Skudesnaes, 49° at Bodö, 52° at Aberdeen and Leith, and 53° at Warsaw and Lemberg. Rising later to 78° at Nairn and in London, to about the same height in central Europe, and to some degrees above 80° in the south. Highest values, 90° at Cette and 95° at Sfax.

Wind at 8 a.m. showing two chief cyclonic circulations on the Continent—one over Russia and the other over southern Europe—and a smaller one over the north of France. Southerly to Easterly winds prevailing over the United Kingdom. Northerly current over Finland increasing to a gale by evening, but not much change taking place generally.

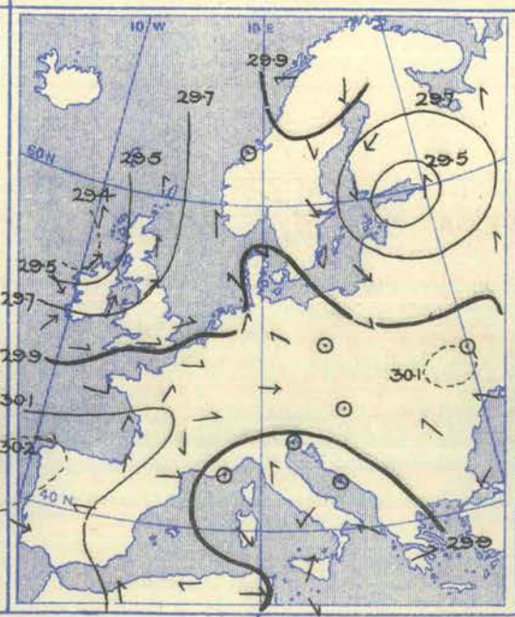
Barometer at 8 a.m. ranging from above 30·2 ins. in Portugal and above 30·0 ins. in a long band extending southwards across Scandinavia and Denmark and south-eastwards to the North Sea, to less than 29·9 ins. in a depression over the west of Italy and its vicinity, to less than 29·7 ins. in another system off the west of Ireland, and to below 29·5 ins. in a large disturbance centred over the western part of Russia. Russian depression increasing in depth during day and moving slowly northwards. Irish disturbance spreading eastwards over our Islands.

Friday, 1st July, 1904.

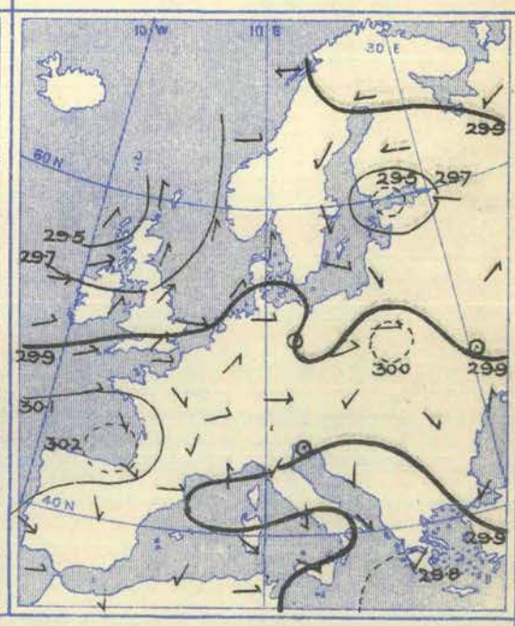
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast in most parts of our area, but fine and bright over England and in different parts of the Continent. Showers falling on our own western coasts, and rain at Lésina and in Finland. Showers experienced at many of our own stations and in the north of France later, and decided falls of rain in Russia, and as much as 1·6 ins. at Rome.

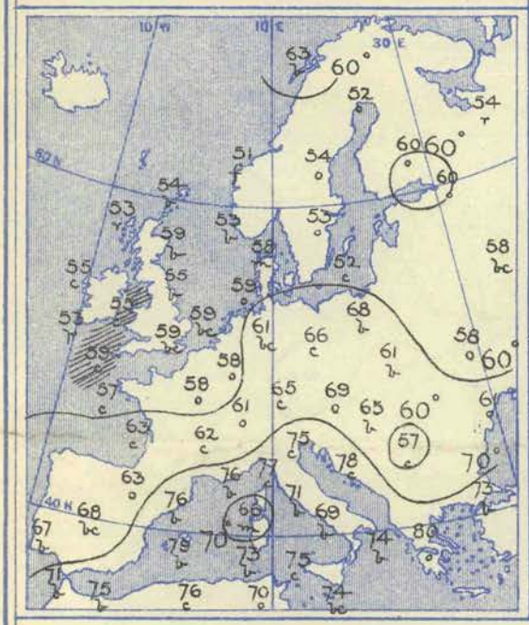
Temperature in morning, 82° at Patras, between 70° and 80° at nearly all stations on the shores of the Adriatic and Mediterranean, and as high as 66° at Archangel. Below 60° in several parts of our Islands and northern Europe. Lowest reading, 47° at Skudesnaes. Rising during day to more than 100° in central Algeria, 97° at Sfax, to nearly 90° in several parts of Spain, Italy, and Greece, to 84° at Berlin, and to 70° or above at some stations in Great Britain. Maximum 68° at Bodö, but 10° lower at Pembroke.

Wind at 8 a.m. showing a complete cyclonic circulation over Russia and Finland, and a partial one over the United Kingdom. Not much strength generally, but a fresh or strong breeze from the South-Westward at some of our own stations. Light airs from no general direction prevailing over the Mediterranean, and a feeble anticyclonic circulation over France and the Iberian Peninsula. Very little change later.

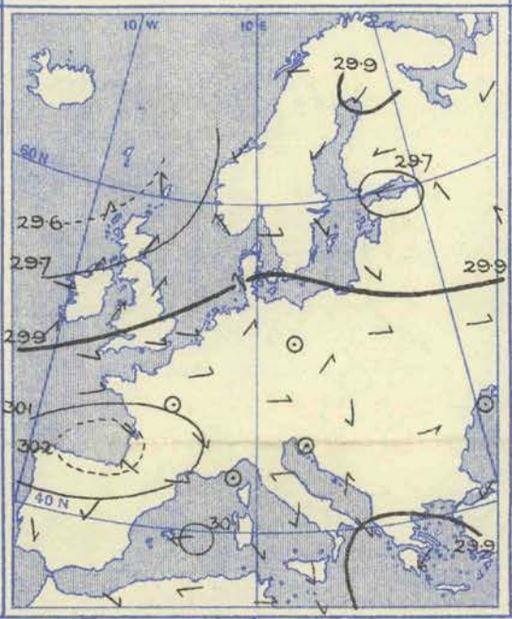
Barometer in morning ranging from above 30·2 ins. in the north-west of Spain, to below 29·9 ins. in an area of relatively low readings centred over Italy, to less than 29·5 ins. in a depression over the Gulf of Finland, and to 29·4 ins. and less in another system off the north of Ireland. Latter disturbance travelling north-eastwards during day, and that over the Gulf of Finland remaining stationary and decreasing somewhat in intensity. Pressure increasing on our west and south coasts and along the west of France.

Saturday, 2nd July, 1904.

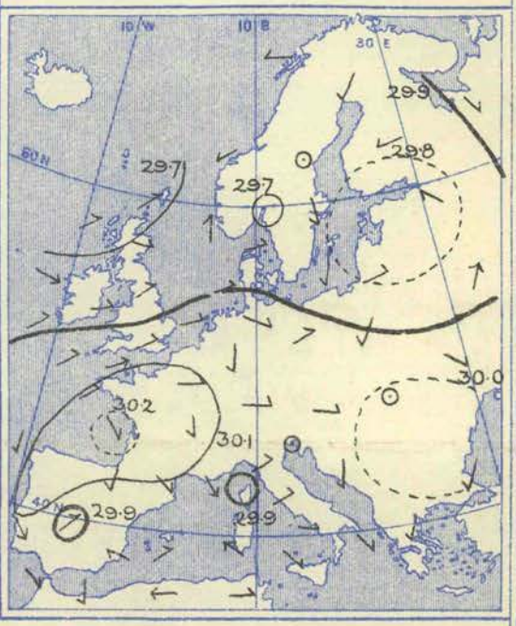
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine in most regions, but cloudy or overcast, with showers, on our extreme west and north-west coasts, dull in Sweden and Finland, and rainy at Archangel. Rain or passing showers later over the United Kingdom and several parts of northern and central Europe; thunderstorms, or thunder only, occurring along the east coasts of Great Britain.

Temperature risen as a whole, but fallen in some localities. Morning readings highest, (1) 80° at Patras and only a few degrees lower at many other southern stations, (2) 63° at Bodö, Lowest, 51° at Malin Head and Christiansund, 52° at Wisby and Limoges, and 55° at Le Mans. Rising subsequently to 68° in central England and at Bodö, to between 70° and 80° in Germany and Austria, to 90° at Madrid, 91° at Cagliari, and 93° at Patras. Maxima below 60° at some Irish and Welsh stations.

Wind at 8 a.m. showing one or two complete or partial cyclonic circulations of light or moderate winds over the greater part of our area, and an anticyclonic movement around the Bay of Biscay. Scarcely any change later in day.

Barometer at 8 a.m. highest, above 30·2 ins. in an anticyclone over the Bay of Biscay and the south-west of France. Lowest, 29·7 ins. and less (1) in a depression centred off the north of Scotland, and (2) in another over the Gulf of Finland. Below 29·9 ins. over Greece. A depression forming over central Spain during day and local irregularities of pressure appearing over the United Kingdom. No change occurring in the general distribution.

IV.—GENERAL NOTES, etc.

The type of pressure distribution during this week changed frequently, but during the greater part of the time the barometer was highest in an area extending from the Bay of Biscay to central Europe and sometimes including a good part of the United Kingdom. The chief depressions during the earlier days were observed over the north and north-east of the Continent, but later there were also rather important systems skirting our own north-west and north coasts. In addition to these there were several systems, all shallow, and many of them ill-defined, over southern Europe and the Mediterranean. Strong squally winds from between North-West and West were very generally experienced over Denmark, the Baltic, and North Germany during the earlier half of the week, and later on strong Northerly winds or gales set in over Finland and the Gulf of Bothnia. A good deal of rain fell over all the northern regions of Europe, and a few heavy falls were reported from the south; in the intervening countries the weather was mostly fair or fine. Temperature was never high for the time of year over Europe as a whole, and over Denmark and Germany it was sometimes low. In Lapland and at Archangel the thermometer was frequently higher than at many miles further south.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 152.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNESS	38·8	+ 5·0	31	+ 4	SHEFFIELD	65·0	—	56	—	WESTBOURNE	94·1†	+ 43·7	83†	+ 39
STRATHPEFFER SPA	48·2	+ 13·3	39	+ 11	WORKSOP	66·9	+ 29·6	57	+ 25	VENTNOR HOSPITAL	88·8	+ 41·9	79	+ 37
CRATHES	54·7	—	45	—	THURCASTON	73·7	+ 33·4	64	+ 29	BOURNEMOUTH	86·9	—	77	—
EDINBURGH	56·2	+ 22·6	46	+ 19	MARGATE	76·7	+ 32·5	67	+ 29	MARLBOROUGH	75·3	+ 32·0	66	+ 28
COCKLE PARK	63·9	—	54	—	BROADSTAIRS	68·8	—	60	—	SOUTHPORT	74·1	—	63	—
NEWCASTLE-ON-TYNE	61·8	—	52	—	RAMSGATE	77·5	—	68	—	RHYL	74·3	—	64	—
YORK	57·4	+ 17·7	49	+ 15	EASTBOURNE	88·0	+ 36·4	78	+ 32	ABERDOVEY	82·9†	—	72†	—
SKEGNESS	72·7	—	62	—	BRIGHTON	85·1	+ 33·0	75	+ 29	TENBY	76·9	+ 26·2	67	+ 23
CROMER	78·4	—	68	—	WORTHING	83·5	—	74	—	TORQUAY	83·2	+ 30·7	74	+ 27
LOWESTOFT	72·4	—	62	—	BOGNOR	†	—	†	—	NEWQUAY	81·0	+ 30·3	72	+ 27
DUNMOW	76·4	—	66	—						GUERNSEY	96·9†	+ 38·7	87†	+ 35

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values below must be substituted for those which have already appeared.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Twenty-Seventh Year, No. 9, p. 50	Hereford	—	—	36·5	—	32·2	- 8·5	—	69	—	—	—	—	—	—	—
" " " " 10, p. 56	Donaghadee	—	—	—	34·1	38·8	- 3·1	—	28	—	—	—	—	—	—	—
" " " " "	Jersey	—	—	—	—	—	—	—	—	—	—	—	42·3	+ 10·0	—	—
" " " " "	Rothamsted	—	—	47·5	—	39·8	- 0·4	15	35	—	—	—	—	—	—	—
" " " " "	Cirencester	—	—	47·8	—	39·3	- 0·6	16	40	—	—	—	—	—	—	—
" " " " "	Blackpool	—	—	—	30·4	37·8	- 2·9	10	42	—	—	—	—	—	—	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

TWENTY-SEVENTH YEAR. Vol XXI. (New Series.) No. 27. TWENTY-SEVENTH WEEK, ENDING SATURDAY, JULY 9TH, 1904. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 158.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	66	35	58·3	48·4	53·0	1 below	77	− 6	0	0	787*	− 46	477	− 72
	1. SCOTLAND, EAST	72	40	63·0	48·4	55·2	1 below	92	− 6	0	0	884	−139	585	− 7
	2. ENGLAND, N.E.	82	42	71·0	51·2	60·4	2 above	129	+20	0	0	1077	+ 9	431	− 59
	3. ENGLAND, EAST	84	45	70·1	53·0	60·9	1 above	132	+ 9	0	0	1203	− 87	404	−131
	4. MIDLAND COUNTIES	83	40	71·0	50·5	60·1	1 above	127	+ 8	0	0	1140	−172	474	− 73
	5. ENGLAND, SOUTH	85	47	69·4	53·1	60·7	1 above	131	+ 1	0	0	1253	−164	345	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	69	41	60·5	49·9	54·8	2 below	90	−13	0	0	968	−132	375	− 42
	7. ENGLAND, N.W.	76	43	64·3	51·0	57·2	1 below	106	− 8	0	0	1036	−148	386	− 13
	8. ENGLAND, S.W.	84	42	67·4	52·7	59·5	0 (average)	123	+ 5	0	0	1254	− 97	252	− 53
	9. IRELAND, NORTH	72	44	60·1	50·1	54·7	2 below	89	−15	0	0	1005	−191	337	− 20
	10. IRELAND SOUTH	75	40	64·3	49·3	56·3	2 below	100	−14	0	0	1248	−147	232	− 24
	— CHANNEL ISLANDS	83	50	67·3	54·8	60·6	0 (average)	130	+ 1	0	0	1493	− 49	80	− 41

Rainfall.

	DISTRICTS. (See p. 158.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	9	1 more	127	+15	27·3	+ 4·7
	1. SCOTLAND, EAST	3	3	3 less	109	+13	14·2	+ 0·1
	2. ENGLAND, N.E.	2	2	4 less	94	+ 5	10·4	− 0·8
	3. ENGLAND, EAST	1	3	2 less	91	0	10·2	− 0·6
	4. MIDLAND COUNTIES	1	1	5 less	100	+14	12·2	− 0·5
	5. ENGLAND, SOUTH	1	1	4 less	101	+16	14·1	+ 1·6
Principal Grazing Districts.	6. SCOTLAND, WEST	4	10	1 more	114	+15	25·5	+ 2·9
	7. ENGLAND, N.W.	3	2	4 less	107	+14	15·7	+ 0·9
	8. ENGLAND, S.W.	2	1	6 less	106	+12	18·9	+ 1·9
	9. IRELAND, NORTH	4	5	2 less	129	+16	18·2	+ 1·9
	10. IRELAND, SOUTH	2	2	4 less	118	+15	20·4	+ 1·5
	— CHANNEL ISLANDS	2	1	4 less	120	+22	18·4	+ 4·1

Bright Sunshine.

	DISTRICTS. (See p. 158.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	16	−16	13	−13	661	− 25	27	− 1
	1. SCOTLAND, EAST	28	− 9	23	− 8	693	− 66	28	− 3
	2. ENGLAND, N.E.	52	+ 5	45	+ 4	733	− 84	30	− 3
	3. ENGLAND, EAST	56	+ 9	49	+ 8	813	− 90	34	− 4
	4. MIDLAND COUNTIES	54	+11	47	+10	709	− 55	29	− 2
	5. ENGLAND, SOUTH	53	+ 5	47	+ 4	811	− 64	34	− 3
Principal Grazing Districts.	6. SCOTLAND, WEST	26	−16	22	−13	698	− 90	29	− 4
	7. ENGLAND, N.W.	50	+11	43	+ 9	755	− 6	31	0
	8. ENGLAND, S.W.	48	+ 1	42	+ 1	806	−120	33	− 5
	9. IRELAND, NORTH	26	− 7	22	− 6	677	− 76	28	− 3
	10. IRELAND, SOUTH	48	+11	42	+ 9	757	− 85	31	− 4
	— CHANNEL ISLANDS	60	+ 5	54	+ 5	961	− 97	40	− 4

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was very fine over the Kingdom generally, but somewhat unsettled, with rain at times, in the far north and north-west. Thunderstorms were experienced in many parts of Great Britain on Sunday, and thunder was heard in one or two localities on Wednesday.

Temperature was rather low for the time of year during the early days of the week, but subsequently increased until it became above the normal in almost all districts. The average for the week was, however, slightly below the mean in Ireland and Scotland, and only equal to it in England S.W. and Channel Islands. Over the greater part of England it was a little above the mean. The highest of the maxima were registered, as a rule, on Saturday, and ranged from 85° in England S. (in London), 84° in England E. and S.W. (at Hillington and Cullompton), 83° in the Midland Counties and the Channel Islands, and 82° in England N.E., to 72° in Scotland E. and Ireland N., and to 66° in Scotland N. The lowest of the minima (which were recorded on the 3rd and 4th) varied from 35° in Scotland N., and 40° in Scotland E., the Midland Counties, and Ireland S., to 47° in England S., and to 50° in the Channel Islands.

Rainfall exceeded the mean in the north and west of Scotland, but was less than the normal elsewhere, the fall being especially slight over the centre, south, and south-west of England.

Bright Sunshine was deficient over Scotland and in Ireland N., but very prevalent elsewhere. The percentage of the possible duration ranged from 54 in the Channel Islands and 49 in England E., to 22 in Scotland W. and Ireland N., and to 13 in Scotland N.

Barometer and Wind. During the earlier half of the week depressions moving eastwards or north-eastwards skirted our most north-western and northern coasts, the barometer at the time being highest to the southward of our Islands. The winds consequently varied between South-West and West or North-West. They blew freshly or strongly at times in Ireland and the west of Scotland, but had little force elsewhere. After Monday the high pressure in the south extended gradually northwards until it embraced the whole Kingdom. By the end of the week the Westerly wind had fallen very light in the north, while over the southern counties a gentle breeze from East or North-East had set in.

At about 3·20 p.m. on the 3rd distinct shocks of earthquake were felt over the North Midlands, Lincolnshire, Gloucestershire, and also in Cheshire and Carnarvonshire.

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II.—DATA from which the SUMMARY on page 157 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	60	45	56·6	47·6	51·8	+ 0·3	69	0	4	0·97	+ 0·47	*	*	*	*
	Stornoway	61	47	57·0	49·3	52·9	− 0·7	76	0	6	1·03	+ 0·38	14·4	− 20·6	12	− 17
	Wick	64	43	60·6	48·4	54·1	− 0·1	85	0	7	0·52	0·00	*	*	*	*
	Lairg 𝔖	66	35	60·6	44·8	52·2	− 1·6	71	0	6	0·35	− 0·30	*	*	*	*
	Glencarron 𝔖	58	47	55·4	48·0	51·4	− 2·8	66	0	7	1·37	+ 0·07	*	*	*	*
	Fort Augustus 𝔖	63	48	59·6	49·7	54·3	− 1·6	86	0	3	0·41	− 0·24	14·7	− 9·3	12	− 8
	Fort William	63	49	58·6	51·0	54·5	− 1·4	88	0	7	1·47	+ 0·37	9·8	− 22·7	8	− 19
1. SCOTLAND, E.	Nairn	68	43	65·0	48·6	56·2	+ 0·2	99	0	3	0·24	− 0·31	*	*	*	*
	Aberdeen	69	44	64·4	48·7	56·0	0·0	98	0	3	0·25	− 0·32	25·1	− 14·2	21	− 12
	Braemar 𝔖	63	40	57·2	45·9	51·2	− 2·6	64	0	3	0·51	− 0·09	*	*	*	*
	Ochtertyre 𝔖	72	43	63·1	48·6	55·4	− 1·8	94	0	3	0·30	− 0·37	*	*	*	*
	Leith	71	48	65·1	51·0	57·6	+ 0·1	109	0	3	0·24	− 0·31	*	*	*	*
	Marchmont 𝔖	66	43	63·0	47·6	54·8	− 0·9	90	0	3	0·23	− 0·51	31·4	− 8·1	26	− 7
2. ENGLAND, N.E.	Alnwick Castle	72	42	67·0	49·9	57·9	+ 1·8	111	0	2	0·21	− 0·37	*	*	*	*
	Durham	70	47	76·3	49·7	62·1	+ 4·3	141	0	2	0·21	− 0·37	36·8	− 1·2	31	− 1
	Shields	75	49	69·4	52·3	60·3	+ 3·8	128	0	2	0·30	− 0·23	*	*	*	*
	Scarborough 𝔐	78	47	70·1	50·9	59·8	+ 2·1	125	0	2	0·09	− 0·47	57·1	—	49	—
	Spurn Head	78	50	67·6	53·9	60·3	+ 1·6	128	0	1	0·05	− 0·31	*	*	*	*
	Lincoln	81	46	72·4	50·9	60·9	+ 1·0	132	0	2	0·14	− 0·34	*	*	*	*
	Fulbeck (Lincolnshire)	82	46	73·9	51·1	61·7	+ 2·3	138	0	1	0·03	− 0·47	63·1	—	55	—
3. ENGLAND, E.	Hillington 𝔐	84	46	73·3	49·7	60·7	+ 1·3	131	0	2	0·57	− 0·01	56·5	+ 11·7	49	+ 10
	Yarmouth	70	49	65·9	54·9	60·0	+ 1·0	126	0	1	0·12	− 0·44	*	*	*	*
	Geldeston	79	45	71·2	50·8	60·3	+ 1·3	128	0	1	0·03	− 0·50	51·8	+ 3·8	45	+ 3
	Cambridge	83	46	73·3	52·0	61·9	+ 1·5	139	0	2	0·02	− 0·50	58·5	+ 12·8	51	+ 11
	Felixstowe	79	50	67·8	54·8	60·9	+ 1·6	132	0	1	0·60	—	47·4†	—	42†	—
	Clacton-on-Sea	70	49	68·1	55·0	61·1	+ 1·0	134	0	1	0·32	—	52·2†	—	46†	—
	Rothamsted	80	49	71·1	51·4	60·6	+ 1·5	130	0	1	0·12	− 0·43	55·7	+ 8·7	49	+ 8
	Shoeburyness	75	51	70·0	55·1	62·0	+ 2·0	140	0	1	0·66	+ 0·27	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	76	42	66·9	48·7	57·2	+ 0·4	106	0	0	0·00	− 0·60	50·7	—	43	—
	Bawtry (Hesley Hall)	81	40	71·9	47·4	58·8	− 0·2	118	0	1	0·04	− 0·52	*	*	*	*
	Nottingham	80	45	72·1	51·1	60·9	+ 0·5	132	0	2	0·09	− 0·48	57·7	—	50	—
	Colly Weston (Stamford)	83	46	74·0	50·9	61·7	+ 1·7	138	0	1	0·01	− 0·51	*	*	*	*
	Cheadle 𝔐	77	45	68·6	49·5	58·4	+ 1·4	115	0	1	0·03	− 0·63	*	*	*	*
	Birmingham (Edgbaston)	80	50	70·3	52·4	60·7	+ 1·8	131	0	2	0·11	− 0·49	50·8	—	44	—
	Shrewsbury	81	40	72·4	51·6	61·3	+ 1·9	135	0	2	0·04	—	*	*	*	*
	Hereford 𝔐	81	43	72·2	51·3	61·0	+ 1·2	133	0	1	0·01	− 0·48	*	*	*	*
	Cirencester	82	43	69·9	49·4	58·9	+ 0·1	118	0	1	0·25	− 0·34	49·3	+ 4·6	43	+ 4
	Oxford	83	49	71·7	53·0	61·7	+ 1·6	138	0	1	0·27	− 0·27	50·5	+ 5·3	44	+ 5
5. ENGLAND, S.	London	85	50	75·4	53·7	62·9	+ 1·2	146	0	1	0·14	− 0·34	51·0‡	+ 9·0‡	45‡	+ 8‡
	Wisley (Surrey)	84	49	71·8	52·5	61·5	− 1·1	137	0	1	0·10	—	49·5	—	44	—
	Swarraton (Alresford) 𝔐	83	47	71·0	50·9	60·3	+ 2·2	128	0	1	0·03	− 0·51	*	*	*	*
	Tunbridge Wells 𝔐	82	47	70·6	50·8	60·0	− 0·8	126	0	1	0·37	—	51·2	—	45	—
	Dungeness	68	49	65·6	53·9	59·3	− 0·6	121	0	0	0·00	− 0·35	63·0	—	56	—
	Hastings (St. Leonards)	74	49	67·4	54·3	60·4	+ 0·6	129	0	0	0·00	− 0·45	65·0	+ 12·1	58	+ 11
	Southampton	81	50	72·0	54·5	62·6	+ 1·3	144	0	2	0·22	− 0·32	49·0	− 0·5	43	0
	Portland Bill	71	54	65·9	55·3	59·8	+ 1·0	125	0	0	—	—	*	*	*	*
	Shaftesbury 𝔐	80	48	68·0	51·8	59·3	+ 1·3	121	0	4	0·10	− 0·52	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	63	49	58·6	50·8	54·4	− 2·1	87	0	7	2·10	+ 1·00	*	*	*	*
	Glasgow	61	49	58·7	51·3	54·7	− 2·2	89	0	5	0·62	− 0·10	11·4	− 22·1	10	− 18
	Cally 𝔖	65	41	62·2	46·6	53·9	− 2·5	83	0	4	0·95	+ 0·11	*	*	*	*
	Aspatria	66	46	61·7	50·7	55·8	− 0·8	97	0	2	0·57	—	28·4	—	24	—
	Douglas (Isle of Man)	69	45	61·5	50·1	55·4	− 1·1	94	0	4	0·55	− 0·08	36·9	− 9·4	32	− 8
7. ENGLAND, N.W.	Newton Rigg	69	44	63·8	48·1	55·4	− 1·0	94	0	2	0·07	—	33·9	—	29	—
	Stonyhurst	68	45	62·4	51·1	56·4	− 1·4	101	0	3	0·75	− 0·12	51·7	+ 10·5	45	+ 9
	Blackpool 𝔐	68	47	63·8	52·4	57·7	− 0·9	110	0	2	0·23	− 0·39	50·6	+ 8·4	44	+ 7
	Manchester (Prestwich)	75	43	66·5	50·2	57·8	− 0·2	111	0	4	0·39	− 0·37	49·6	—	43	—
	Liverpool Obsy. (Bidston)	71	51	64·0	53·0	58·1	− 0·9	113	0	2	0·10	− 0·47	52·8	—	46	—
	Chester (Hawarden Bridge)	76	44	65·9	51·2	58·0	− 1·2	112	0	1	0·08	—	*	*	*	*
	Llandudno 𝔐	72	50	64·4	52·8	58·2	− 0·9	113	0	4	0·16	− 0·37	55·8	+ 13·5	48	+ 12
	Holyhead	64	50	61·4	51·6	56·2	− 1·5	99	0	3	0·28	− 0·26	*	*	*	*
	Bettws-y-Coed	74	44	66·3	48·6	56·8	− 2·3	104	0	2	0·08	—	51·7	—	45	—
8. ENGLAND, S.W.	Pembroke	70	50	61·4	53·0	56·9	− 0·5	104	0	3	0·06	− 0·46	61·2	+ 12·7	54	+ 11
	Clifton	82	50	69·5	54·5	61·5	+ 1·5	137	0	0	0·00	− 0·62	*	*	*	*
	Bath	82	49	69·9	53·6	61·2	+ 0·8	134	0	1	0·02	− 0·53	40·3	—	36	—
	Arlington (N. Devon)	76	42	65·6	49·9	57·2	− 0·4	106	0	4	0·24	− 0·64	*	*	*	*
	Cullompton 𝔐	84	43	72·4	50·4	60·6	+ 0·6	130	0	4	0·09	− 0·51	37·2	− 6·2	33	− 6
	Falmouth	75	50	66·3	53·6	59·5	+ 0·3	123	0	2	0·03	− 0·61	48·7	− 3·3	44	− 3
	Plymouth	76	50	66·6	53·7	59·7	− 0·6	124	0	1	0·05	− 0·51	48·7	+ 0·7	44	+ 1
9. IRELAND, N.	Malin Head	57	48	56·1	49·0	52·3	− 3·8	72	0	5	0·41	− 0·21	*	*	*	*
	Edenfel (Omagh)	68	45	59·7	50·3	54·7	− 1·5	89	0	4	0·63	− 0·10	*	*	*	*
	Blacksod Point	61	50	58·4	52·3	55·1	− 2·0	92	0	4	0·75	+ 0·10	*	*	*	*
	Markree Castle	72	44	61·7	49·6	55·2	− 1·0	92	0	5	0·33	− 0·44	19·7	− 11·9	17	− 10
	Armagh	72	45	63·1	49·5	55·8	− 1·1	97	0	4	0·29	− 0·36	31·6	− 2·7	27	− 2
	Donaghadee	67	44	61·4	50·0	55·3	− 1·5	93	0	3	0·37	− 0·23	*	*	*	*
10. IRELAND, S.	Dublin	74	48	68·1	52·2	59·6	+ 0·3	123	0	2	0·11	− 0·42	53·5	+ 13·8	46	+ 12
	Birr Castle	75	42	64·3	48·4	55·8	− 1·9	97	0	3	0·14	− 0·50	39·0	+ 5·4	34	+ 5
	Kilkenny	75	40	66·6	47·7	56·5	− 1·7	102	0	1	0·17	− 0·40	*	*	*	*
	Waterford	73	45	66·3	49·1	57·1	− 2·0	106	0	1	0·27	− 0·39	*	*	*	*
	Roche's Point	68	47	62·7	50·7	56·3	− 2·4	100	0	1	0·26	− 0·41	*	*	*	*
	Valencia	65	45	60·4	51·0	55·4	− 2·6	94	0	3	0·47	− 0·37	50·6	+ 13·0	44	+ 11
	Killarney	68	41	63·9	48·6	55·7	− 2·0	96	0	5	0·39	− 0·36	*	*	*	*
	Foynes	68	45	62·0	46·8	53·9	− 3·2	83	0	1	0·05	− 0·60	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	55	64·1	55·6	59·6	+ 0·3	123	0	3	0·07	− 0·41	44·1	− 7·3	39	− 7
	Jersey	83	50	70·4	54·0	61·6	+ 0·4	137	0	1	0·02	− 0·46	70·9	+ 15·4	64	+ 14

Stations Marked 𝔐 are in connection with the Royal Meteorological Society, and those marked 𝔖 with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

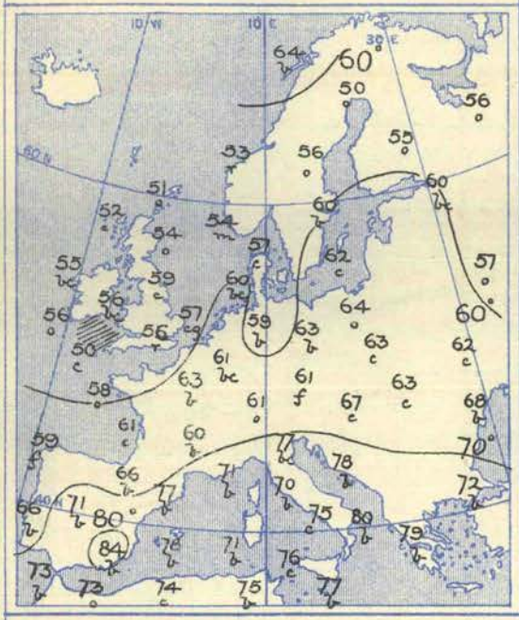
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

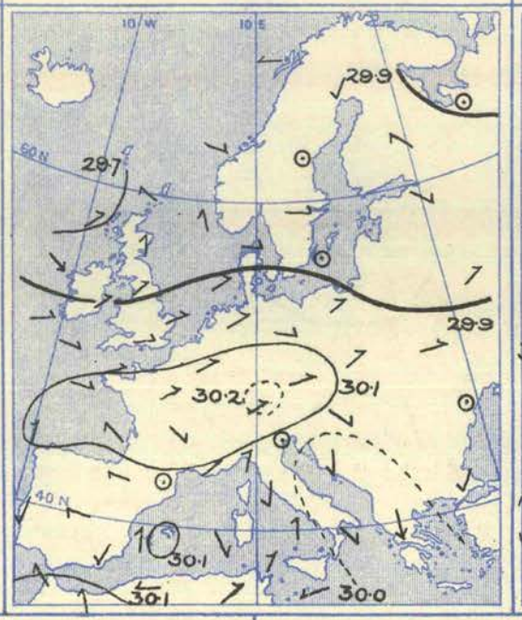
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 3rd July, 1904.

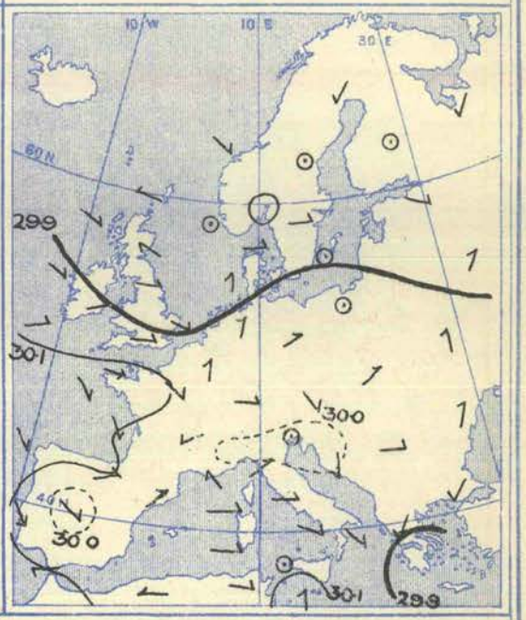
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in most parts of southern Europe and France; cloudy or overcast in almost all other regions, with showers at Malin Head and Leith, rain at Oxford and in London, and fog at Corunna and over the Gulf of Finland. Showers falling later at most of our own stations, with thunder in places. Heavier rain in some of the more northern countries of the Continent—0·7 in. at Copenhagen and 0·9 in. at Cuxhaven.

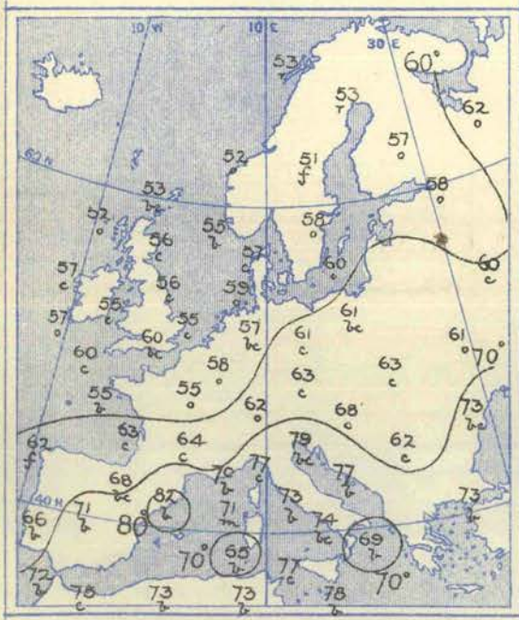
Temperature changed irregularly. Morning readings between 70° and 80° on the shores of the Mediterranean, and as high as 64° at Bodö. As low as 50° at Haparanda and Malin Head, 53° at Liverpool, 55° at Limoges, and 56° in London. Rising during day to 70° in London, to above 80° over southern France, Italy, and central Europe, and to above 90° at some Spanish, Algerian, and Grecian stations. Highest values, 91° at Madrid, 93° at Patras, and 99° at Aumale.

Wind in morning light and anticyclonic over the greater portion of the Continent; moderate to fresh from the Westward or South-Westward in most parts of our Islands, but drawing into South at Aberdeen, and into East-South-East in the Shetlands. A moderate Northerly gale reported at Athens. No great change as a whole later; Northerly wind moderating at Athens, anticyclonic circulation over the Continent becoming less well marked, and wind veering to West-North-West at several of our own stations.

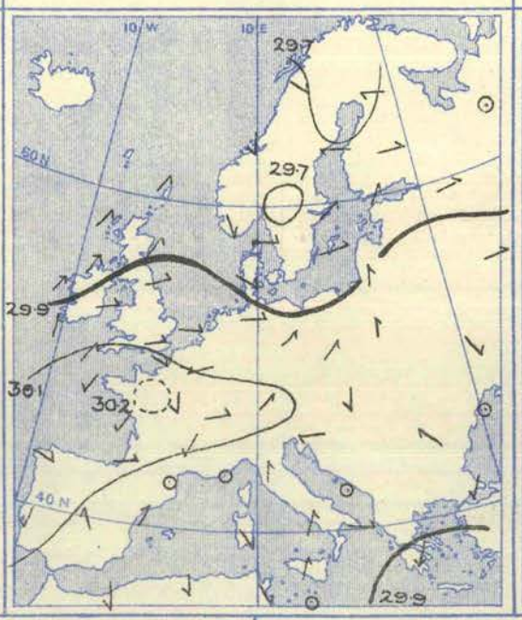
Barometer at 8 a.m. ranging from 30·0 ins. to 30·2 ins. in an anticylone of irregular form covering the southern half of the Continent and the Bay of Biscay, to 29·7 ins. and less in a depression off our north-west coasts. Relatively low in a "trough" extending from Norway to central Russia. Northern depression travelling eastwards during day; barometer falling slowly within the area of high pressure and rising over the United Kingdom. Shallow low pressure areas forming over central Spain and the north of Italy.

Monday, 4th July, 1904.

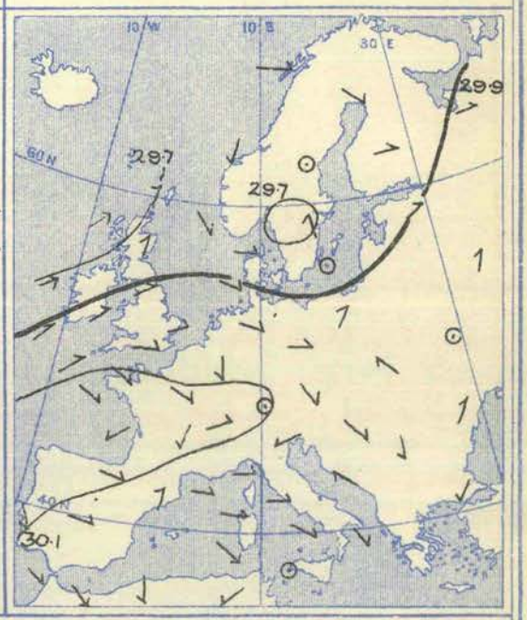
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine generally, but overcast in the extreme north, with rain at Haparanda, Ulealborg, and Bodö; fog prevailing at Corunna. Rain falling later in several parts of northern Europe—as much as 0·9 in. at Wisby—and showers occurring in nearly all British and Irish districts.

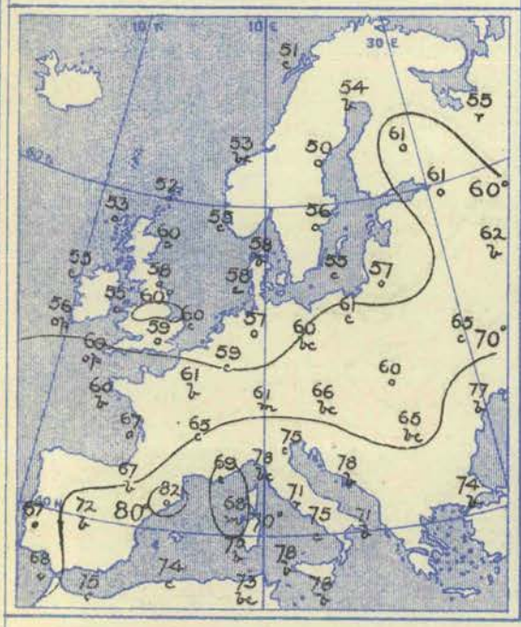
Temperature showing no decided change. Readings in morning ranging from 82° at Barcelona, 80° at Patras, 79° at Trieste, and above 70° in the south generally, to 62° at Archangel, 55° at Paris, 52° at Stornoway, and 51° at Malin Head and Hernösand. Rising during day to 97° at Aumale, 93° at Cagliari, Madrid, and Cette, to above 80° in the southern countries generally and at Buda-Pesth, and to 70° at St. Petersburg, Berlin, and in London. Thermometer not touching 60° at some stations on our north-western coasts.

Wind at 8 a.m. circulating anticyclonically around central Scandinavia; light and anticylonic or variable over our area as a whole, but a fresh South-Westerly breeze blowing in the north-west of our Islands. Latter current increasing in strength during day, and an irregular cyclonic circulation setting in over the Mediterranean and its neighbourhood.

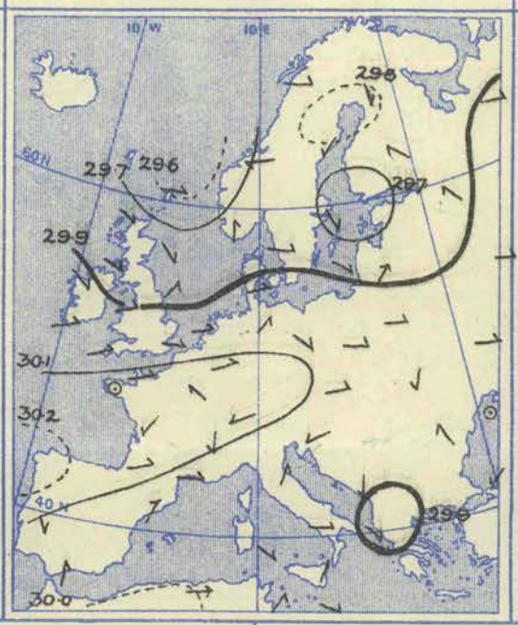
Barometer at 8 a.m. highest, 30·0 ins. to above 30·1 ins. in a very extensive area embracing the southern half, both of our Islands and the Continent. Lowest, 29·7 ins. and less in a shallow depression over Sweden. A depression approaching our north-west coasts during day, and a shallow area of relatively low pressure forming over the central parts of Spain and the western half of the Mediterranean.

Tuesday, 5th July, 1904.

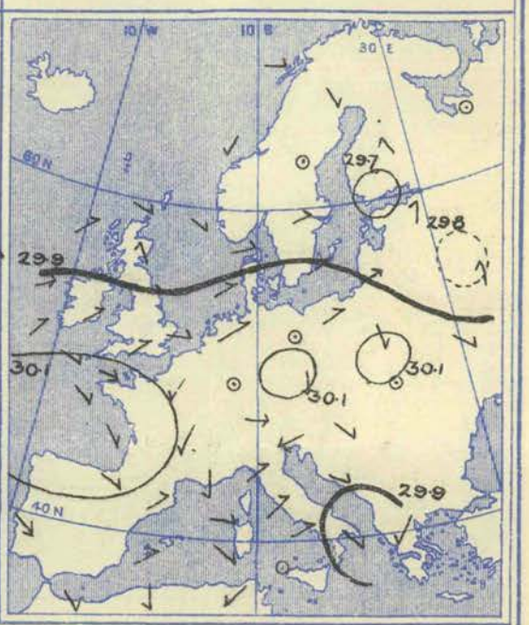
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright at most stations over the southern half of our area; cloudy or overcast in nearly all the more northern stations, with rain or passing showers at a few of our own stations, and also at Archangel. Rain falling later in Finland, at Moscow, Pesaro, and at a few places in North Germany, the United Kingdom, and Sweden. A thunderstorm occurring at Marsailles.

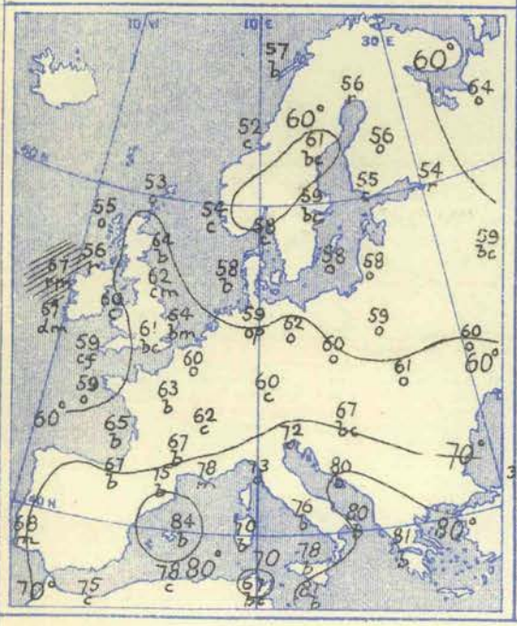
Temperature little changed. Readings in morning above 80° at Cape Sicié and Barcelona, and only a few degrees below it at many other stations; 63° at Uleaborg and 61° at St. Petersburg, but below 60° over the major portion of northern Europe and at most of our own stations. Rising later to 68° at Haparanda and St. Petersburg, 69° on our north-east coast, between 70° and 80° over France and central Europe, and to between 80° and 90° at most southern stations. Highest values, 100° at Aumale and 102° at Patras.

Wind at a.m. light in force and variable in direction. Mainly cyclonic except over the central countries, France, the Bay of Biscay, and the Spanish Peninsula. No important change later.

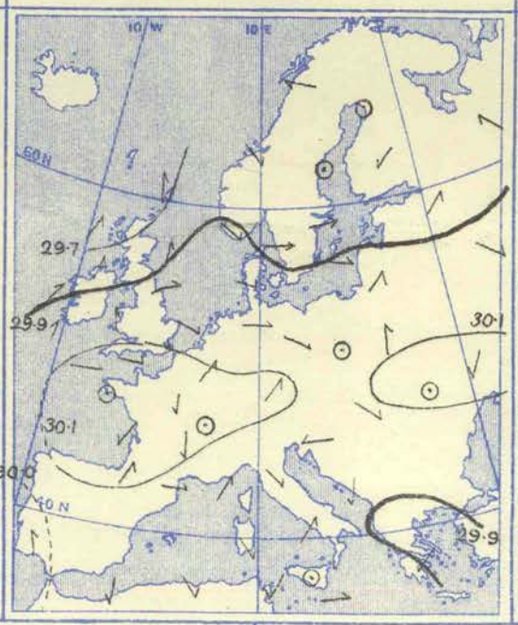
Barometer in morning ranging from 30·1 ins. to 30·0 ins. in an anticyclonic band extending from the Atlantic across central Europe to the Black Sea and Little Russia, to 29·9 ins. in a depression over the southern part of the Adriatic, to less than 29·7 ins. in another disturbance having its centre at the entrance to the Gulf of Finland, and to below 29·6 ins. in a third system lying to the northward of the Shetlands. Not much alteration in the general distribution of pressure later; depression off Scotland either dispersing or travelling away northward.

Wednesday, 6th July, 1904.

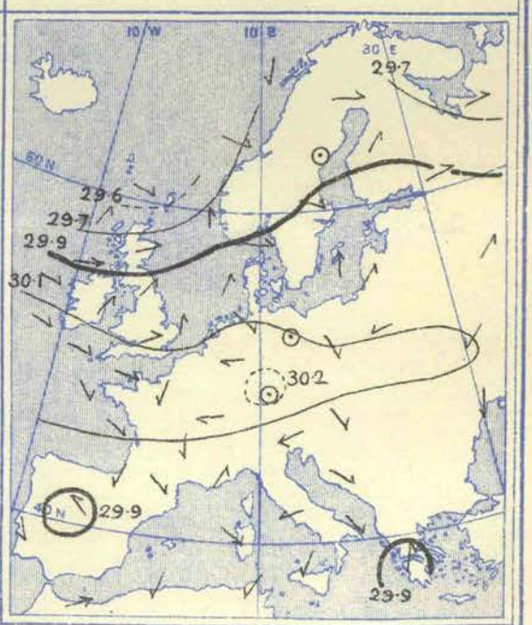
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at a.m. cloudy or overcast in most northern regions and over the northern half of Italy; bright generally elsewhere. Rainy at St. Petersburg, Haparanda, and in the north-west of Ireland, and showers at Cuxhaven. Slight rain falling later at our western and northern stations and in various parts of northern Europe, and as much as 3·5 ins. reported at Karlstad.

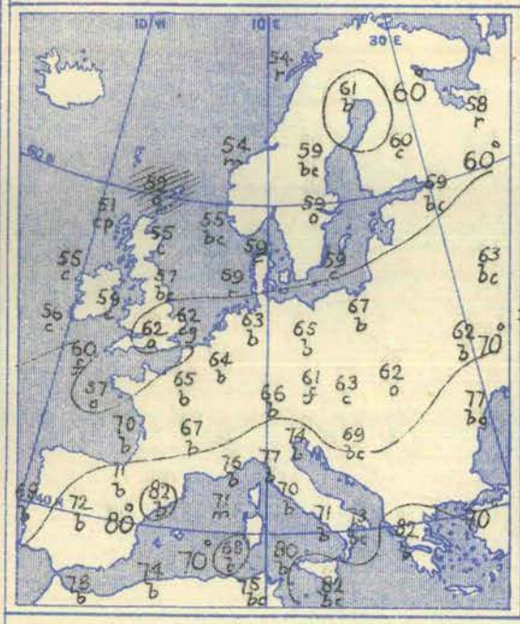
Temperature fallen in the north of Italy, risen in most other places. Readings at 8 a.m. ranging from 84° at Palma, and about 80° in many other southern localities, to 73° at Kharkov, 67° at Clacton-on-Sea, 64° at Archangel, 63° at Leith and Paris, and to 52° at Christiansund. Rising subsequently to 78° on the north-east coast of England, 80° at Nottingham, to several degrees higher over Italy and the south of France, to 93° at Cagliari, 97° at Tunis, and to 99° at Aumale and Madrid.

Wind anticyclonic and very light over all the central parts of our area, light and variable over Italy and the Mediterranean, and moderate to strong from the South-Westward over our own northern and north-western districts. Mainly Westerly over Scandinavia, but Easterly at Bodö and also at Archangel. Not much change later as a whole, but wind veering to the Westward on our western and northern coasts.

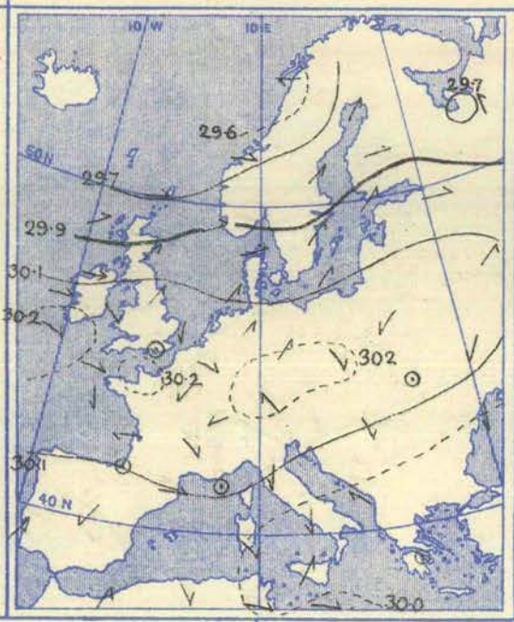
Barometer in morning highest, 30·0 ins, to above 30·1 ins. in a large area comprising all the central countries, France, and the Bay of Biscay, and stretching eastwards to the Black Sea. Lowest, 29·7 ins, and less in a depression off the north of Scotland, and relatively low both over Finland and Greece. Pressure increasing generally during day, but falling in the north of Norway and also in the north and south of Russia.

Thursday, 7th July, 1904.

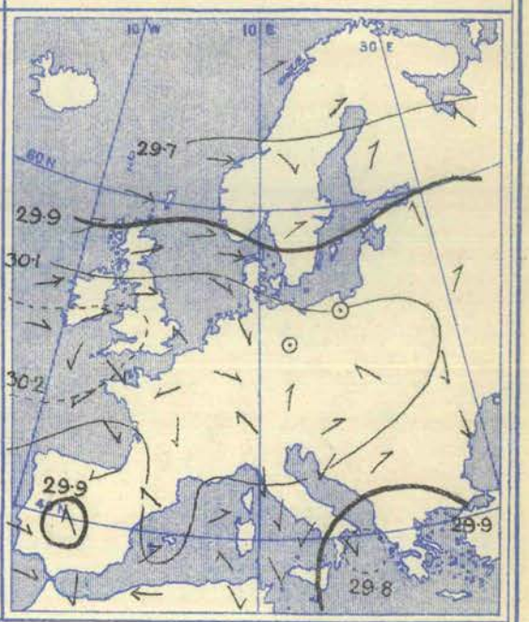
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. dull or cloudy in most parts of our Islands and over the northern countries of the Continent; rain falling at Archangel, Bodö, and in Denmark, and showers on our own north-west coasts. Very fine and bright elsewhere. Rain falling later at some of our own most northern stations and in various parts of northern Europe. Largest amounts, 0·6 in. at Sumburgh Head and 0·4 in. at Bodö.

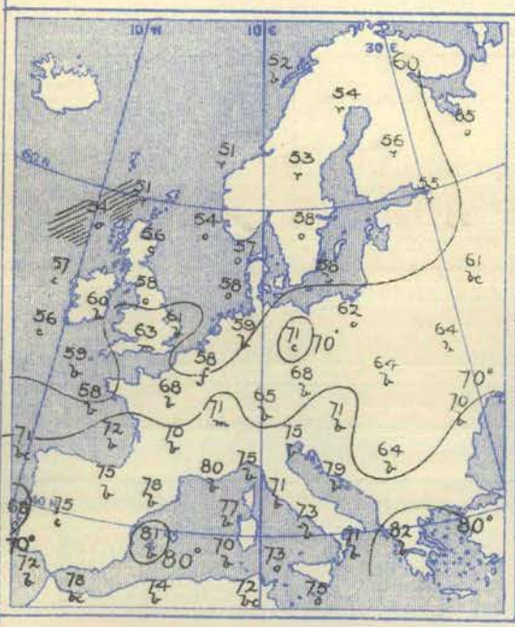
Temperature fallen in Scotland, Ireland, and in a few localities of southern Europe, risen or changed little elsewhere. Morning readings highest, 88° at Sfax, 82° at Athens, Malta, and Barcelona, and between 70° and 80° in the south generally; 71° at Breslau, 67° at Neu-Fahrwasser; above 60° over central and eastern England, and 61° at Haparanda. Lowest, 51° at Malin Head and Stornoway, 52° at Sumburgh Head, 53° at Roche's Point, and 54° or 55° in Norway. Rising during day to 74° at Nottingham, to above 80° in the south of Europe generally, to 95° at Athens and Toulouse, and to 99° at Madrid.

Wind at 8 a.m. very light and mainly anticyclonic over central Europe, France, and the southern half of our Islands. Moderate to fresh from West or South-West in the northern regions generally, but Easterly at Bodö. Light variable airs prevailing over the Mediterranean. No important change later.

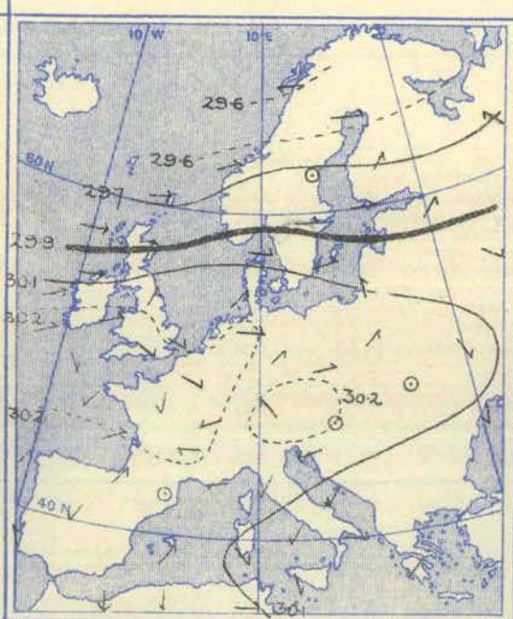
Barometer at 8 a.m. ranging from 30·1 ins. to above 30·2 ins. in a large anticyclone extending from the Atlantic across central Europe to the centre of Russia, and having three distinct maxima, to 29·9 ins. in Greece, 29·7 ins. and less in a minimum near Archangel, and to less than 29·6 ins. in another over the extreme north-west of Norway. Small minima forming later—one near Brindisi, and another over central Spain. General distribution undergoing little change.

Friday, 8th July, 1904.

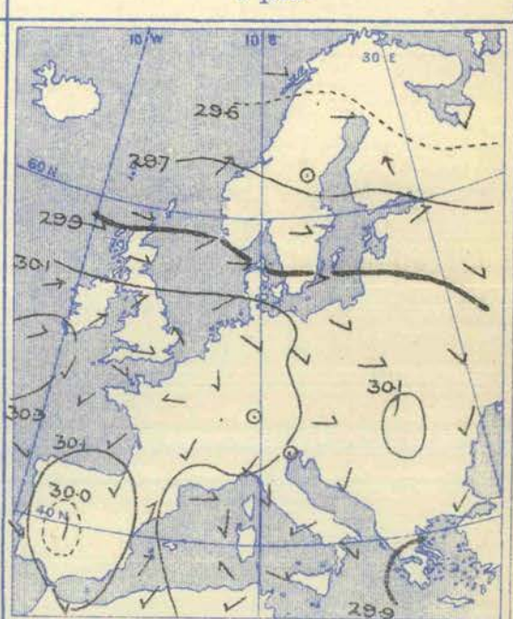
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at a.m. dull and rainy in many parts of northern Europe, but fine and bright over our area as a whole. Fine and very dry during day generally, but some rain falling in the north of Scotland and in several Scandinavian localities—as much as 0·9 in. at Hernösand.

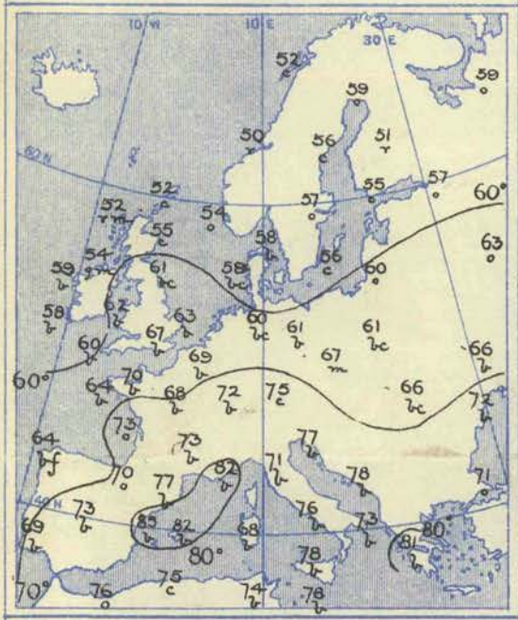
Temperature changed irregularly. Morning readings highest, 84° at Cape Sicié, and only a few degrees lower in many other southern localities, 71° at Berlin, 66° at Memel, and 65° at Archangel. Lowest, 51° at Sumburgh Head and Christiansund, 52° at Bodö, 53° at Hernösand, and 55° at St. Petersburg. Rising later to 66° in the extreme north of Sweden, to 77° at Utrecht, 81° in London, 86° at Paris, and to 90° or above at several stations in the south of Europe. Highest values, 95° at Patras and Limoges, 99° at Madrid, and 101° at Biskra (central Algeria).

Wind at 8 a.m. Westerly over the United Kingdom and the northern half of the Continent, and variable elsewhere. Fresh or strong in force on our extreme north-west and north coasts and in the south of Sweden. Very light generally. No general change later, but a cyclonic circulation setting in over Spain and Portugal.

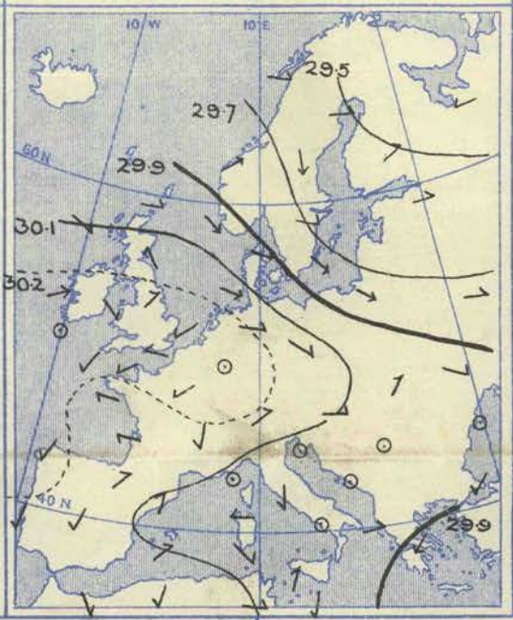
Barometer in morning highest, 30·1 ins. to above 30·2 ins. in a very extensive anticyclone containing two maxima, embracing the greater part of our Islands and the whole of central Europe. Lowest, less than 29·6 ins. over the north of Scandinavia; below 29·9 ins. over Greece. Anticyclone becoming somewhat modified in form later, and a depression developing over central Spain. Barometer rising over our most western and northern coasts.

Saturday, 9th July, 1904.

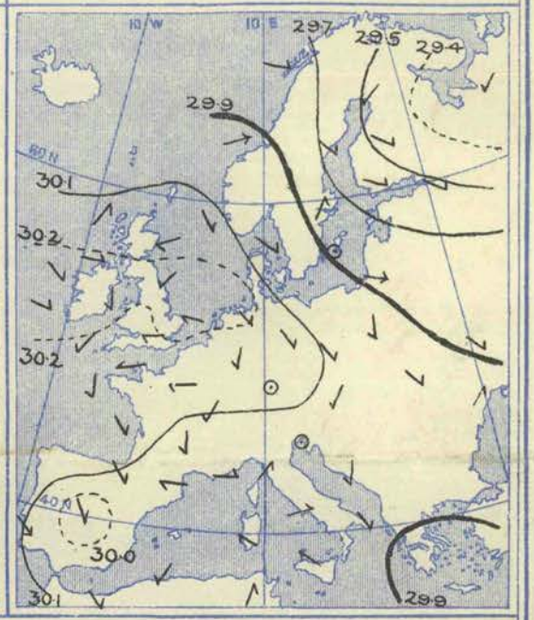
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather at 8 a.m. very fine and bright over our area as a whole, but cloudy or overcast in several northern regions and in the south-west of France, and foggy at Corunna. Rainy at Stornoway, Christiansund, and Kuopio. Very fine all day over Europe generally, but rain falling in Finland, Scandinavia, and the extreme north of Scotland.

Temperature risen generally. Morning readings ranging from 85° at Barcelona, 82° at Nice, and 81° at Patras, and above 70° in almost all parts of southern Europe and at some stations in the central countries, to 69° at Portland Bill, 63° at Moscow, 60° at Leith, 51° at Kuopio, and 50° at Christiansund. Rising subsequently to 85° in London, above 80° over central England and in many parts of Germany, and above 90° at several stations in southern Europe. Highest readings, 95° at Bordeaux and Croisette and 98° at Madrid.

Wind at 8 a.m. moderate to strong from the Westward in most parts of northern Europe, and fresh from North-East over Greece. A light anticyclonic circulation prevailing over our area generally. No important change later.

Barometer in morning ranging from 30·2 ins. and upwards to 30·1 ins. in an extensive high pressure area covering the United Kingdom and extending to central Europe, and decreasing to below 29·9 ins. in the extreme south-east of Europe, and to below 29·5 ins. in the far north-east. The general distribution of pressure remaining unchanged later, but a shallow minimum forming over Spain, and barometer falling somewhat over the White Sea and its vicinity

IV.—GENERAL NOTES, etc.

The dominant factor during the week was the presence of an anticyclone of considerable size but of little intensity which during the greater part of the time lay over some part or the whole of central Europe, France, the Bay of Biscay, and the southern districts of the United Kingdom. Some large depressions of little depth skirted our most north-western and northern coasts and moved on to northern Europe, while some shallow disturbances were sometimes found over the Mediterranean and its vicinity. The latter had very little effect on the weather, which was almost continuously fine and bright both over southern and central Europe. In the far northern countries and on our own north-west and north coasts the sky was often cloudy or quite overcast and passing showers or steady rain were experienced. Temperature showed a general increase during the week throughout all regions, but especially in those countries under the direct influence of the anticyclone. Readings of 90° or above were very common on the various shores of the Mediterranean and in the centre of Spain. The general wind current was between South-West and West, or North-West north of latitude 55°, but in the central and southern parts of our area the wind was usually very light and variable.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 158.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week
DEERNESS	22·6	− 10·7	18	− 9	SHEFFIELD	60·1	—	52	—	WESTBOURNE	50·2†	− 0·5	44†	− 1
STRATHPEFFER SPA	16·1	− 15·3	13	− 13	WORKSOP	53·8	+ 16·4	46	+ 14	VENTNOR HOSPITAL	55·4	+ 7·7	50	+ 7
CRATHES	27·1	—	22	—	THURCASTON	58·2	+ 17·4	51	+ 15	BOURNEMOUTH	55·0	—	49	—
EDINBURGH	28·2	− 5·2	24	− 4	MARGATE	47·5	+ 2·7	42	+ 2	MARLBOROUGH	42·5	− 0·3	38	0
COCKLE PARK	42·0	—	35	—	BROADSTAIRS	47·1	—	42	—	SOUTHPORT	54·3	—	47	—
NEWCASTLE-ON-TYNE	42·5	—	36	—	RAMSGATE	49·7	—	44	—	RHYL	50·9	—	44	—
YORK	49·7	+ 10·1	43	+ 9	EASTBOURNE	63·6	+ 11·1	56	+ 10	ABERDOVEY	54·5†	—	47†	—
SKEGNESS	64·3	—	55	—	BRIGHTON	54·5	+ 2·5	48	+ 2	TENBY	56·6	+ 7·9	50	+ 7
CROMER	62·6	—	54	—	WORTHING	56·3	—	50	—	TORQUAY	49·5	− 1·4	44	− 1
LOWESTOFT	51·7	—	45	—	BOGNOR	59·7†	—	53†	—	NEWQUAY	51·0	+ 1·7	46	+ 2
DUNMOW	57·2	—	50	—						GUERNSEY	64·5†	+ 6·9	58†	+ 6

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values below must be substituted for those which have already appeared.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Twenty-Seventh Year, No. 10, p. 56	Stonyhurst	—	—	—	—	—	—	—	—	3	0·28	− 0·50	—	—	—	—
,, ,, ,, ,, ,,	Glencarron	—	—	—	30·6	35·6	− 2·1	—	45	—	—	—	—	—	—	—
,, ,, ,, ,, ,,	Hillington	—	—	—	33·5	—	—	—	—	—	—	—	—	—	—	—
,, ,, ,, ,, ,,	Glasgow	—	—	—	—	—	—	—	—	—	—	—	23·6	+ 6·0	—	—
,, ,, ,, ,, ,,	Nottingham	—	—	47·0	—	39·6	− 1·0	14	33	—	—	—	—	—	—	—
,, ,, ,, ,, p. 60	Bognor	—	—	—	—	—	—	—	—	—	—	—	33·1	—	42	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 28. TWENTY-EIGHTH WEEK, ENDING SATURDAY, JULY 16TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature' will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 164.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	79	45	64·3	50·5	56·9	2 above	104	+18	0	0	891	- 28	477	- 72
	1. SCOTLAND, EAST	79	42	67·7	51·0	58·8	2 above	118	+15	0	0	1002	-124	585	- 7
	2. ENGLAND, N.E.	84	47	73·3	55·4	63·7	5 above	152	+37	0	0	1229	+ 46	431	- 59
	3. ENGLAND, EAST	86	46	75·1	56·2	65·0	5 above	161	+33	0	0	1364	- 54	404	-131
	4. MIDLAND COUNTIES	85	43	77·5	54·9	65·4	6 above	164	+40	0	0	1304	-132	474	- 73
	5. ENGLAND, SOUTH	85	51	74·9	56·8	65·2	4 above	162	+27	0	0	1415	-137	345	- 52
Principal Grazing Districts.	6. SCOTLAND, WEST	83	48	67·6	53·1	59·8	3 above	125	+20	0	0	1093	-112	375	- 42
	7. ENGLAND, N.W.	82	46	71·6	55·0	62·7	4 above	145	+28	0	0	1181	-120	386	- 13
	8. ENGLAND, S.W.	84	51	72·6	58·1	64·8	5 above	160	+38	0	0	1414	- 59	252	- 53
	9. IRELAND, NORTH	80	39	66·4	52·7	59·0	2 above	119	+12	0	0	1124	-179	337	- 20
	10. IRELAND SOUTH	83	45	69·1	54·3	61·2	2 above	134	+17	0	0	1382	-130	232	- 24
	— CHANNEL ISLANDS	85	55	71·6	59·7	65·2	4 above	162	+29	0		1655	- 20	80	- 41

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 164.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	5	3 less	131	+15	27·8	+ 4·4	33	+ 4	27	+ 3	694	- 21	27	- 1
	1. SCOTLAND, EAST	3	5	2 less	112	+12	14·7	0·0	43	+ 7	36	+ 6	736	- 59	29	- 2
	2. ENGLAND, N.E.	1	2	4 less	95	+ 2	10·6	- 1·1	63	+15	55	+13	796	- 69	31	- 3
	3. ENGLAND, EAST	1	1	5 less	92	- 2	10·3	- 1·1	87	+39	77	+34	900	- 51	36	- 2
	4. MIDLAND COUNTIES	1	1	5 less	101	+12	12·3	- 1·0	70	+30	62	+27	779	- 25	31	- 1
	5. ENGLAND, SOUTH	1	1	4 less	102	+14	14·2	+ 1·2	80	+32	72	+29	891	- 32	35	- 1
Principal Grazing Districts.	6. SCOTLAND, WEST	3	10	2 more	117	+14	26·5	+ 3·0	54	+10	47	+ 9	752	- 80	29	- 3
	7. ENGLAND, N.W.	3	5	2 less	110	+14	16·2	+ 0·7	65	+27	57	+23	820	+ 21	32	+ 1
	8. ENGLAND, S.W.	3	3	3 less	109	+11	19·2	+ 1·5	60	+10	54	+ 9	866	-110	34	- 4
	9. IRELAND, NORTH	4	9	2 more	133	+16	19·1	+ 2·1	49	+18	43	+16	726	- 58	28	- 2
	10. IRELAND, SOUTH	4	12	6 more	122	+16	21·6	+ 2·1	43	+ 8	38	+ 7	800	- 78	32	- 3
	— CHANNEL ISLANDS	2	1	3 less	122	+20	18·5	+ 3·7	72	+18	66	+16	1033	- 79	41	- 3

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was very fine, bright, and dry over the greater part of England, but in Ireland, Scotland, and the western districts of England the sky was often cloudy, and on several occasions rain was experienced. Thunderstorms occurred in many parts of the Kingdom between Monday and Wednesday, but they were not, as a rule, heavy.

Temperature was above the mean in all districts, the excess ranging from 2° in Scotland N. and E. and over Ireland, to 5° in England N.E., E., and S.W., and to 6° in the Midland Counties. The highest of the maxima were recorded on rather irregular dates. They were as high as 79° in Scotland N. and E., 80° in Ireland N., 85° in the Midland Counties, England S., and the Channel Islands, and 86° in England E. (at Cambridge and Geldeston on Friday). The lowest of the minima, which also occurred on variable dates, ranged from 39° in Ireland N., 42° in Scotland E., and 43° in the Midland Counties, to 51° in England S.W., and to 55° in the Channel Islands. Towards the end of the week the minima at many stations were no lower than 60°.

Rainfall exceeded the mean in Scotland W. and over Ireland, but was less elsewhere; over eastern, southern, and central England, and in the Channel Islands the fall was extremely slight.

Bright Sunshine was very abundant over England, and above the mean over the Kingdom generally. The percentage of the possible duration ranged from 77 in England E. and 72 in England S., to 38 in Ireland S., and to 27 in Scotland N.

Barometer and Wind. At the commencement of the week an anticyclone lay over the United Kingdom and its vicinity, the winds being light from the Westward in the north and from the Eastward in the south. This system, however, moved slowly away in a north-easterly direction, and depressions soon began to skirt our western districts. One of the systems was large and deep, and caused the Southerly winds to increase considerably in force on all our western coasts. On Thursday a moderate to fresh gale was experienced in places, and a whole gale at Blacksod Point. During the earlier half of the week our most southern and south-eastern coasts came under the influence of shallow thunderstorm disturbances from France. At the end of the period the barometer was rising again very generally, and the wind had become light or moderate between South and West.

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II.—DATA from which the SUMMARY on page 163 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	61	47	56·4	49·1	52·5	+ 0·1	74	0	3	0·27	− 0·25	*	*	*	*
	Stornoway	71	49	62·6	50·4	56·1	+ 1·8	99	0	5	0·45	− 0·21	35·7	+ 3·0	29	+ 3
	Wick	65	48	61·7	50·1	55·5	+ 0·5	95	0	4	0·34	− 0·21	*	*	*	*
	Lairg Ⓢ	76	46	70·3	49·6	59·2	+ 4·9	120	0	2	0·30	− 0·37	*	*	*	*
	Glencarron Ⓢ	79	46	66·9	50·7	58·2	+ 3·5	113	0	5	0·45	− 0·90	*	*	*	*
	Fort Augustus Ⓢ	75	45	66·4	51·3	58·3	+ 2·0	114	0	3	0·24	− 0·45	35·8	+ 13·6	30	+ 11
	Fort William	76	49	66·0	52·4	58·7	+ 2·3	117	0	4	1·67	+ 0·51	36·7	+ 6·7	31	+ 6
1. SCOTLAND, E.	Nairn	74	46	70·3	50·4	59·7	+ 3·0	124	0	3	0·10	− 0·49	*	*	*	*
	Aberdeen	70	47	64·0	51·9	57·5	+ 0·7	109	0	4	0·10	− 0·53	34·8	− 3·1	29	− 3
	Braemar Ⓢ	75	44	66·7	48·7	57·1	+ 2·3	106	0	3	0·22	− 0·40	*	*	*	*
	Ochtertyre Ⓢ	79	42	68·9	49·6	58·6	+ 0·5	116	0	4	1·11	+ 0·42	*	*	*	*
	Leith Ⓢ	74	48	68·4	53·7	60·5	+ 2·1	130	0	3	0·57	− 0·01	*	*	*	*
	Marchmont Ⓢ	73	48	68·0	51·9	59·4	+ 2·9	122	0	3	0·88	+ 0·12	56·6	+ 17·8	48	+ 15
2. ENGLAND, N.E.	Alnwick Castle	75	47	69·5	51·4	59·8	+ 2·7	125	0	2	0·13	− 0·49	*	*	*	*
	Durham	75	49	71·0	53·8	61·8	+ 3·1	139	0	2	0·19	− 0·44	55·4	+ 17·8	48	+ 15
	Shields	77	55	71·9	57·4	64·2	+ 6·7	155	0	2	0·03	− 0·53	*	*	*	*
	Scarborough Ⓜ	80	53	71·9	55·1	62·9	+ 4·2	146	0	1	0·11	− 0·47	57·7	—	50	—
	Spurn Head	79	55	71·4	57·4	63·9	+ 4·4	153	0	1	0·02	− 0·34	*	*	*	*
	Lincoln	83	53	78·0	56·7	66·6	+ 6·4	172	0	1	0·55	+ 0·07	*	*	*	*
	Fulbeck (Lincolnshire)	84	51	79·3	55·9	66·8	+ 6·7	174	0	1	0·03	− 0·49	80·1	—	70	—
3. ENGLAND, E.	Hillington Ⓜ	85	50	79·8	53·9	65·9	+ 5·5	167	0	1	0·30	− 0·33	80·9	+ 36·2	72	+ 32
	Yarmouth	79	58	71·0	59·4	64·8	+ 4·7	160	0	0	0·00	− 0·60	*	*	*	*
	Geldeston	86	46	76·8	53·2	64·2	+ 4·2	155	0	0	0·00	− 0·55	85·3	+ 37·7	76	+ 33
	Cambridge	86	50	80·0	54·5	66·4	+ 5·3	171	0	0	0·00	− 0·53	87·3	+ 41·5	77	+ 37
	Felixstowe	79	51	70·2	56·9	63·1	+ 2·7	148	0	1	0·06	—	86·7†	—	77†	—
	Clacton-on-Sea	77	57	70·9	58·7	64·4	+ 3·8	157	0	1	0·07	—	90·9†	—	81†	—
	Rothamsted	82	50	77·9	53·9	65·1	+ 5·0	162	0	1	0·02	− 0·54	86·1	+ 38·5	77	+ 34
	Shoeburyness	83	56	73·9	59·1	66·0	+ 5·0	168	0	1	0·09	− 0·31	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	76	47	72·8	53·0	62·2	+ 4·6	141	0	2	0·21	− 0·39	64·9	—	56	—
	Bawtry (Hesley Hall)	82	43	78·7	52·1	64·5	+ 4·7	158	0	1	0·19	− 0·39	*	*	*	*
	Nottingham	81	52	78·4	57·0	67·0	+ 6·0	175	0	1	0·12	− 0·45	75·6	—	66	—
	Colly Weston (Stamford)	85	50	81·1	54·7	67·0	+ 6·0	175	0	1	0·15	− 0·39	*	*	*	*
	Cheadle Ⓜ	81	52	75·7	55·5	64·9	+ 7·2	160	0	1	0·02	− 0·64	*	*	*	*
	Birmingham (Edgbaston)	81	53	77·0	57·2	66·4	+ 6·7	171	0	1	0·02	− 0·58	62·8	—	56	—
	Shrewsbury	82	48	77·3	54·3	65·0	+ 5·6	161	0	1	0·35	—	*	*	*	*
	Hereford Ⓜ	82	51	77·3	55·6	65·7	+ 5·3	166	0	1	0·01	− 0·49	*	*	*	*
	Cirencester	82	51	77·4	53·2	64·5	+ 5·1	158	0	0	0·00	− 0·63	69·7	+ 25·1	62	+ 22
	Oxford	84	53	79·0	56·7	67·1	+ 6·2	176	0	0	0·00	− 0·55	77·8	+ 32·4	70	+ 29
5. ENGLAND, S.	London	85	55	80·4	57·4	68·1	+ 5·6	183	0	1	0·03	− 0·47	81·4‡	+ 39·4‡	73‡	+ 35‡
	Wisley (Surrey)	82	52	77·3	55·5	65·6	+ 3·0	165	0	0	0·00	—	76·9	—	69	—
	Swarraton (Alresford) Ⓜ	83	51	77·3	54·1	64·9	+ 5·9	160	0	0	0·00	− 0·57	*	*	*	*
	Tunbridge Wells Ⓜ	81	53	77·6	54·9	65·5	+ 4·3	165	0	0	0·00	—	88·6	—	79	—
	Dungeness	71	52	70·0	58·1	63·6	+ 2·7	151	0	1	0·38	+ 0·02	87·2	—	79	—
	Hastings (St. Leonards)	77	55	73·5	57·7	65·1	+ 4·5	162	0	1	0·03	− 0·45	90·3	+ 37·6	81	+ 34
	Southampton	81	57	77·2	58·5	67·2	+ 5·1	176	0	0	0·00	− 0·56	79·5	+ 30·0	72	+ 27
	Portland Bill	69	57	66·6	58·3	62·2	+ 2·9	141	0	3	0·30	—	*	*	*	*
	Shaftesbury Ⓜ	79	55	74·1	56·6	64·7	+ 5·9	159	0	2	0·02	− 0·62	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	74	51	65·0	53·7	59·0	+ 2·0	119	0	5	1·40	+ 0·26	*	*	*	*
	Glasgow	72	49	66·5	53·1	59·3	+ 2·0	121	0	4	0·56	− 0·18	40·9	+ 8·3	35	+ 7
	Cally Ⓢ	83	48	71·2	52·0	60·9	+ 3·8	132	0	3	1·49	+ 0·63	*	*	*	*
	Aspatria	81	50	70·2	53·2	61·1	+ 3·7	134	0	2	0·89	—	64·0	—	55	—
	Douglas (Isle of Man)	75	50	65·1	53·4	58·8	+ 1·6	113	0	3	0·85	+ 0·19	57·2	+ 12·0	50	+ 10
7. ENGLAND, N.W.	Newton Rigg	80	49	69·5	52·8	60·6	+ 3·5	130	0	3	0·58	—	63·3	—	55	—
	Stonyhurst	78	49	71·6	55·0	62·7	+ 4·4	145	0	3	0·53	− 0·39	68·5	+ 28·2	60	+ 25
	Blackpool Ⓜ	80	49	71·3	54·2	62·2	+ 2·8	141	0	3	0·39	− 0·26	69·1	+ 27·6	60	+ 24
	Manchester (Prestwich)	80	51	75·3	55·7	64·8	+ 6·2	160	0	3	0·40	− 0·39	66·5	—	58	—
	Liverpool Obsy. (Bidston)	80	55	73·0	57·0	64·4	+ 4·7	157	0	4	0·13	− 0·48	67·2	—	59	—
	Chester (Hawarden Bridge)	80	51	73·8	55·7	64·1	+ 4·3	155	0	2	0·13	—	*	*	*	*
	Llandudno Ⓜ	80	51	71·0	55·9	62·9	+ 3·0	146	0	5	0·41	− 0·13	65·7	+ 24·6	58	+ 22
	Holyhead	70	53	65·9	55·0	60·1	+ 1·6	127	0	3	0·74	+ 0·19	*	*	*	*
	Bettws-y-Coed	82	46	72·8	53·4	62·4	+ 2·9	143	0	4	1·14	—	55·2	—	48	—
8. ENGLAND, S.W.	Pembroke	76	55	65·6	57·6	61·3	+ 3·0	135	0	4	0·25	− 0·29	54·7	+ 7·8	49	+ 7
	Clifton	84	56	77·6	59·1	67·7	+ 7·0	180	0	1	0·02	− 0·63	*	*	*	*
	Bath	84	51	76·9	56·9	66·2	+ 5·0	169	0	0	0·00	− 0·57	74·4	—	66	—
	Arlington (N. Devon)	82	54	72·7	56·6	64·1	+ 5·7	155	0	6	0·39	− 0·56	*	*	*	*
	Cullompton Ⓜ	84	54	76·5	57·4	66·3	+ 5·5	170	0	3	0·33	+ 0·20	62·6	+ 20·2	56	+ 18
	Falmouth	71	54	69·2	58·7	63·6	+ 3·6	151	0	5	0·57	− 0·10	51·3	− 0·1	46	0
	Plymouth	79	58	69·9	60·1	64·7	+ 3·7	159	0	4	0·28	− 0·31	63·6	+ 16·3	57	+ 15
9. IRELAND, N.	Malin Head	70	49	62·3	51·6	56·6	0·0	102	0	4	0·55	− 0·09	*	*	*	*
	Edenfel (Omagh)	80	45	68·1	52·9	60·0	+ 3·4	126	0	5	0·57	− 0·17	*	*	*	*
	Blacksod Point	73	48	65·6	53·7	59·2	+ 1·6	120	0	3	1·05	+ 0·38	*	*	*	*
	Markree Castle	79	39	69·7	51·6	60·0	+ 3·2	126	0	4	0·72	− 0·08	50·6	+ 20·9	44	+ 17
	Armagh	77	46	69·2	53·2	60·6	+ 3·1	130	0	4	1·18	+ 0·50	48·1	+ 15·6	42	+ 13
	Donaghadee	69	50	63·3	53·1	57·8	+ 0·5	111	0	4	1·22	+ 0·71	*	*	*	*
10. IRELAND, S.	Dublin	73	50	68·1	55·5	61·4	+ 1·5	136	0	3	0·38	− 0·06	46·5	+ 8·3	41	+ 7
	Birr Castle	82	45	69·7	52·0	60·2	+ 1·9	127	0	4	1·29	+ 0·73	39·3	+ 7·3	35	+ 6
	Kilkenny	78	45	68·3	54·0	60·7	+ 1·7	131	0	4	0·98	+ 0·43	*	*	*	*
	Waterford	79	47	69·6	54·1	61·3	+ 1·7	135	0	4	1·34	+ 0·67	*	*	*	*
	Roche's Point	72	51	65·1	55·4	59·9	+ 0·6	125	0	6	1·79	+ 1·09	*	*	*	*
	Valencia	78	50	67·4	54·6	60·6	+ 2·2	130	0	6	1·63	+ 0·85	43·4	+ 7·9	39	+ 7
	Killarney	83	52	73·7	54·8	63·6	+ 5·5	151	0	4	1·85	+ 1·19	*	*	*	*
	Foynes	82	50	70·6	54·0	61·7	+ 4·3	138	0	4	0·66	+ 0·07	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	70	56	67·0	58·6	62·5	+ 2·4	144	0	3	0·27	− 0·13	58·0	+ 8·2	53	+ 7
	Jersey	85	55	76·1	60·7	67·9	+ 6·0	181	0	0	0·00	− 0·52	79·6	+ 24·4	72	+ 22

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

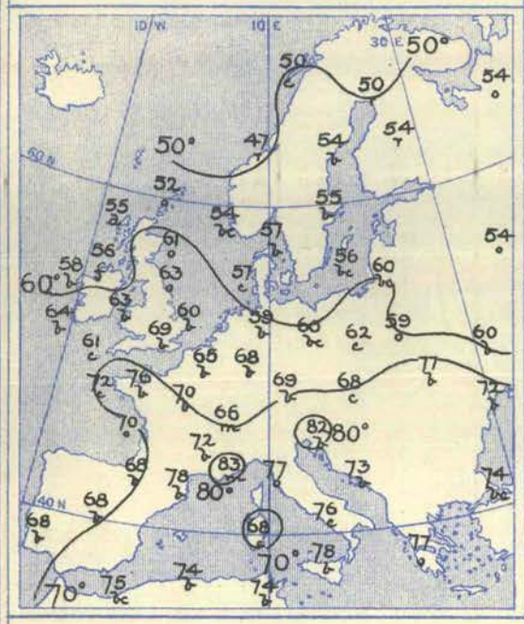
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 10th July, 1904.

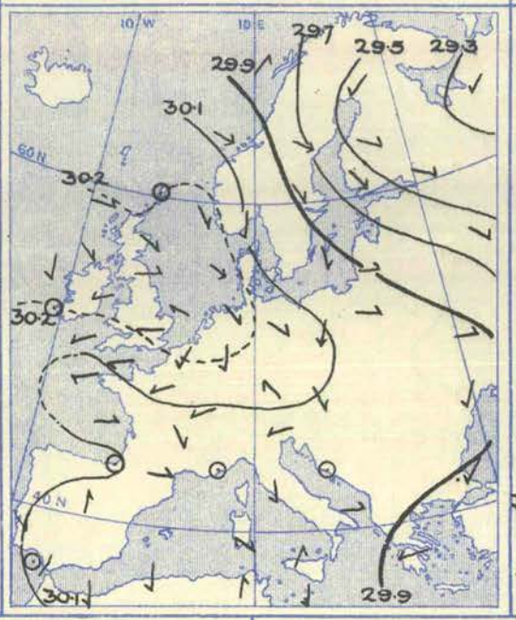
Temperature and Weather. 8 a.m.



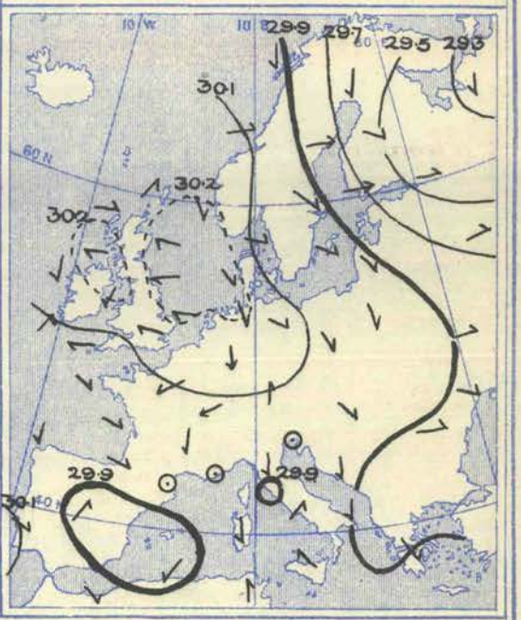
Weather at 8 a.m. dull or cloudy over Scotland and at many stations in the north of Scandinavia and Russia, with rain in several places. Fine and bright in nearly all other regions, but dull in the south-west of France and in Greece, with a thunderstorm at Biarritz and rain at Athens. Rain falling later in the far north, as well as at Malta, and thunderstorms occurring in the centre of France.

Temperature risen in Ireland, Scotland, and Brittany, fallen generally elsewhere. Readings in morning highest, 83° at Cape Sicié, 82° at Trieste, and above 70° at almost all southern stations, and at Lemberg, Jersey, and in Brittany. Lowest, 47° at Christiansund, 52° in the Shetlands, 50° at Haparanda, 54° at Archangel and Moscow, and 59° at Warsaw. Rising during day to 78° at Valencia Island, between 80° and 84° over the southern counties of England, to 85° at Jersey, 90° or above in Brittany, the west of France, Spain, Greece, and in parts of Italy and Algeria. Highest values, 96° at Limoges and Florence.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.

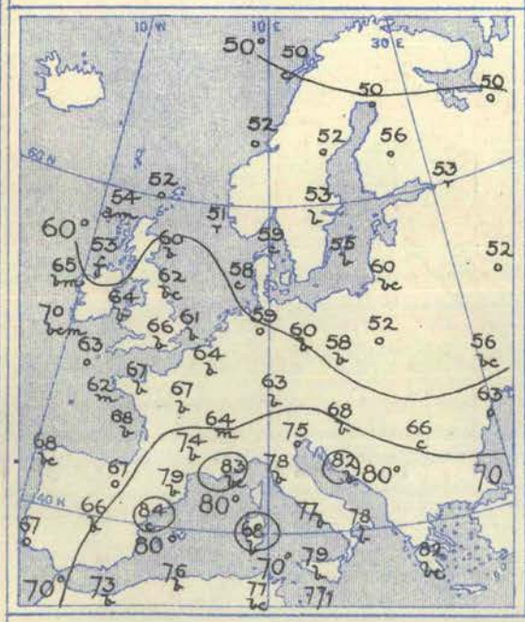


Wind in morning North-Westerly over Scandinavia, the Baltic, and Russia; fresh or strong in places, and blowing a fresh gale at Hernösand. Light and variable airs prevailing over the Mediterranean and southern Europe, and light or moderate Easterly winds over the north of France and the south of England. No general change later; gale subsiding at Hernösand.

Barometer at 8 a.m. ranging from above 30·2 ins. in an anticyclone covering the United Kingdom and the North Sea, to below 29·9 ins. in the south-east of Europe, and to less than 29·3 ins. in the north of Russia. A large shallow depression forming over the east of Spain and its vicinity later, and pressure becoming less regular over the west of France and the British Isles. Anticyclone beginning to travel slowly northwards.

Monday, 11th July, 1904.

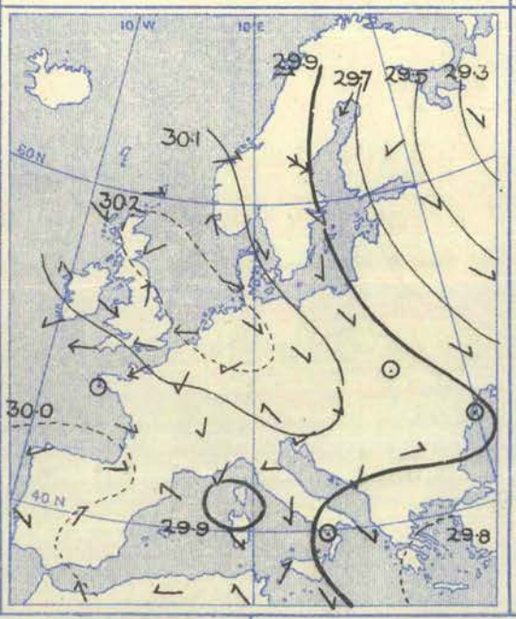
Temperature and Weather. 8 a.m.



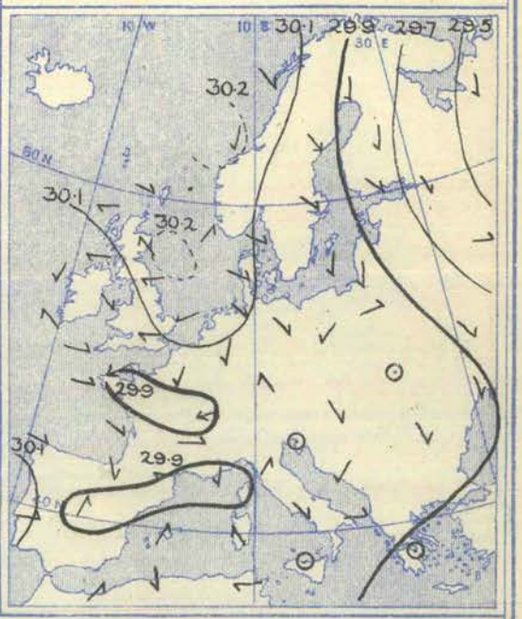
Weather at 8 a.m. very fine and bright in all except the most northern regions of Europe. No rain reported except at St. Petersburg, Skudesnaes, and Stornoway. Slight thunderstorms later at Blacksod Point, some of our most southern and south-western stations, and also over the northern departments of France and at Perpignan.

Temperature changed rather irregularly, but fallen in most places. Readings in morning above 70° in nearly all southern localities, and above 80° in places. Highest values, 84° at Barcelona, 83° at Nice and Leghorn, and 82° at Lesina and Athens. Below 60° in all the northern regions and in Poland, and only 50° at Archangel and in the north of Scandinavia. Rising during day to 97° at Florence, 96° at Lyons, 95° at Athens and Aumale, 91° at Barcelona, and 81° at Manchester and Brighton, but maxima no higher than 65° on the east coast of England.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.

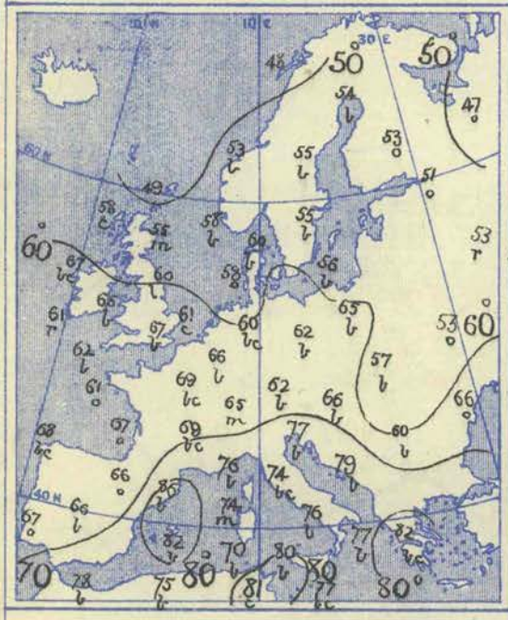


Wind at 8 a.m. showing a feeble cyclonic circulation around the Gulf of Genoa and the adjacent Islands, and a moderate to strong North-Westerly current over Sweden and northern Russia. A gale from North-West prevailing at Hernösand. Light anticyclonic airs over the major portion of our area, but fresh from East on our south coasts. Wind decreasing in force over northern Europe by evening; a cyclonic movement setting in over France.

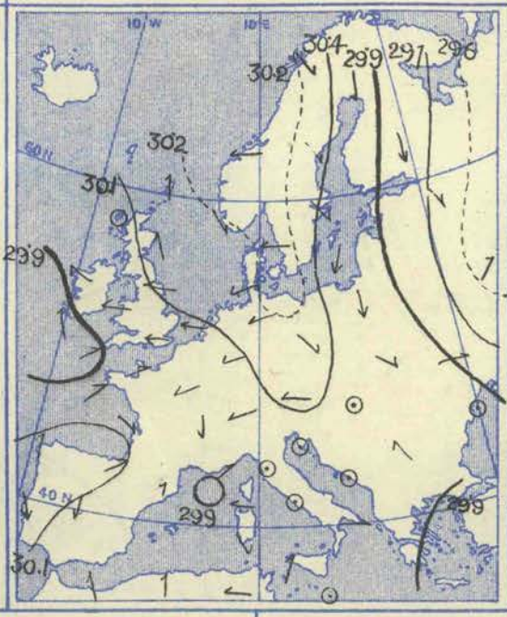
Barometer at 8 a.m. highest, 30·2 ins, and upwards in an anticyclone centred over the North Sea; decreasing to less than 29·9 ins. in a depression off the south-east of France, to below 29·8 ins. in the extreme south-east of Europe, and to below 29·3 ins. in the far north-east. Relatively low in a band over the upper part of the Bay of Biscay, the mouth of the Channel, and a good part of France. Anticyclone moving northwards later, and a definite depression forming over France. Barometer falling irregularly over the United Kingdom.

Tuesday, 12th July, 1904.

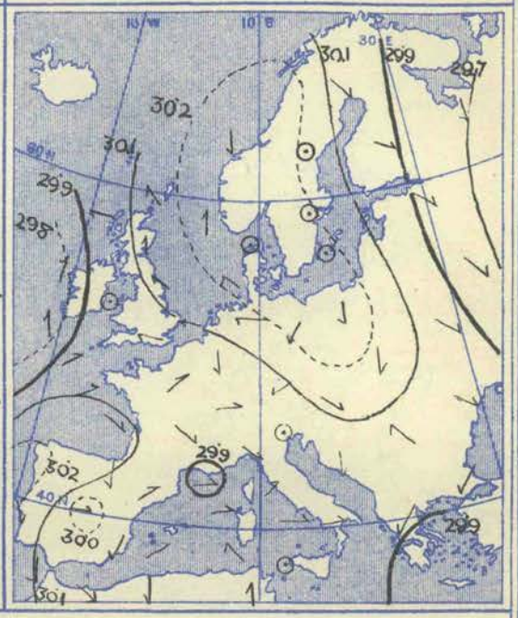
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and nearly cloudless generally, but dull in many parts of Russia and Finland, as well as in Scotland, Ireland, and at a few French and English stations. Rain falling at Moscow and in the south-west of Ireland, and thunderstorms in progress at Portland Bill and Le Havre. Thunderstorms experienced later in many parts of France and England, but rainfall not as a rule heavy. Largest amount reported, 0·87 ins. at Gap.

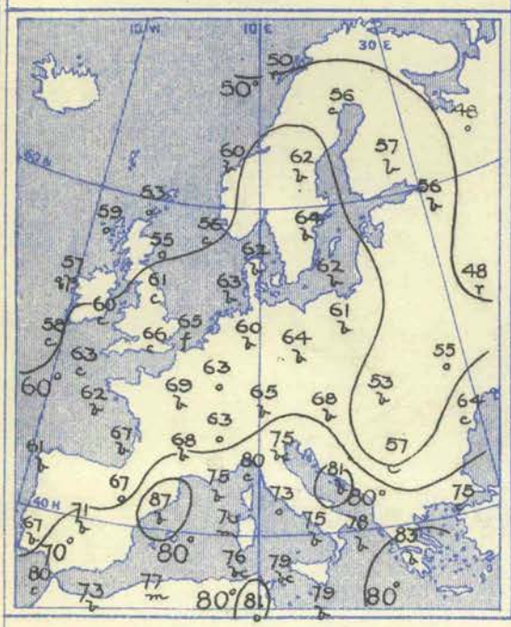
Temperature fallen in most places. Morning readings ranging from 86° at Barcelona, 82° at Athens, 81° at Leghorn, and between 80° and 70° in the south generally, to 68° at Oxford, 60° at Skagen and Copenhagen, 53° at Moscow and Christiansund, 49° in the Shetlands, and 47° at Archangel. Rising subsequently to 80° at Oxford, 88° at Paris, and to 90° or above at many stations in the south of Europe. Highest values, 97° at Cagliari and 102° at Rome.

Wind in morning mainly Easterly over our Islands, the Netherlands, and the north-east of France, but Westerly at Jersey and in the west of France. Northerly over northern Europe, but Westerly at Kiev, and South-Westerly at Moscow. Light and variable airs prevalent over the Mediterranean. Wind veering to the Southward on our west and south west coasts later, but little other change occurring.

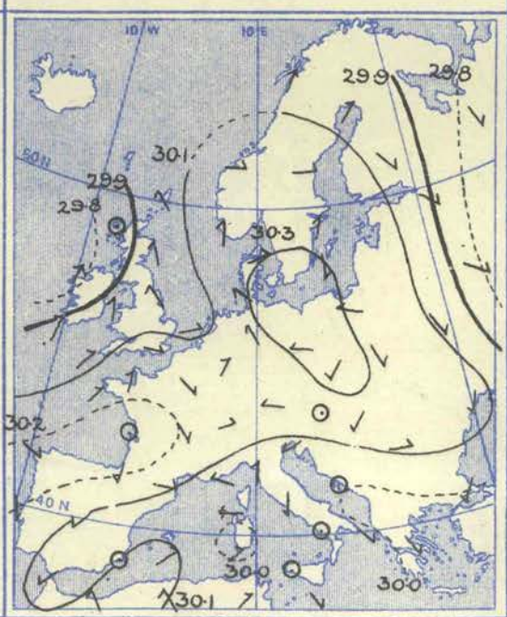
Barometer at 8 a.m. ranging from above 30·2 ins. in an anticyclone over Norway and Denmark, and above 30·1 ins. in another area over Portugal and the north of Spain, to below 29·9 ins. off our west and south-west coasts, and to less than 29·6 ins. over the centre and north of Russia. Northern anticyclone increasing in size by evening and a depression moving northwards outside our most western coasts.

Wednesday, 13th July, 1904.

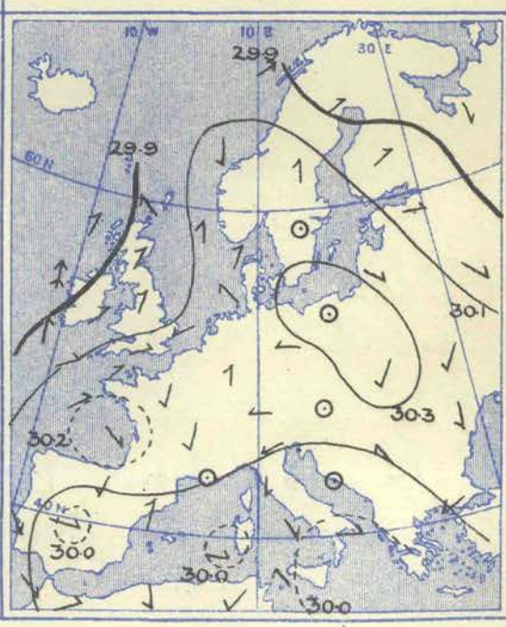
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. very fine over Europe as a whole, but cloudy or dull in places. Rain falling at Moscow and Bodö, and showers at Spurn Head, Pembroke, and over the north of Ireland. Nearly an inch of rain experienced at Bodö later, and 0·7 in. at Valencia, but weather remaining very fine generally.

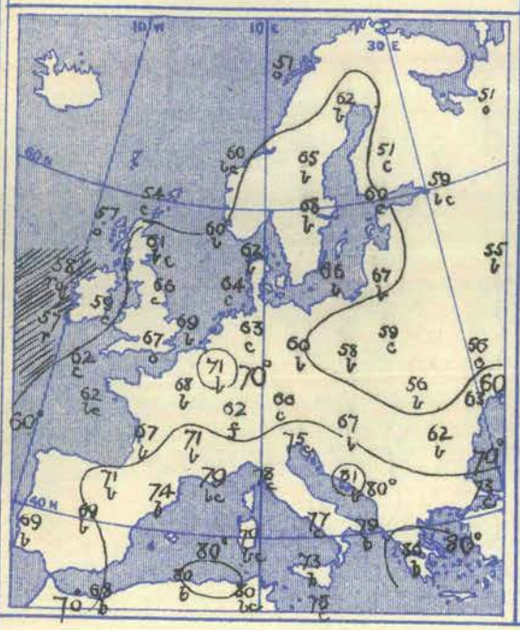
Temperature risen generally—most in Scandinavia. Morning readings ranging from 87° at Barcelona, 84° at Cape Sicié, 83° at Athens, and only a little below 80° at many southern stations, to 70° at Dungeness, 64° at Stockholm, 50° at Bodö, and 48° at Moscow and Archangel. Rising later to 80° at Lowestoft, 81° at Hernösand, between 80° and 90° over the greater part of southern Europe, and to above 90° in some places. Highest values, 98° at Patras and 95° at Croisette and Madrid.

Wind at 8 a.m. showing an anticyclonic circulation over the northern half of the Continent. Light and of no general direction over all the southern countries, but between South-West and South-East over the United Kingdom, and strong in force in the north-west of Ireland. Southerly wind increasing to a fresh gale at Blacksod Point by 6 p.m., and to a strong gale later. Little other change.

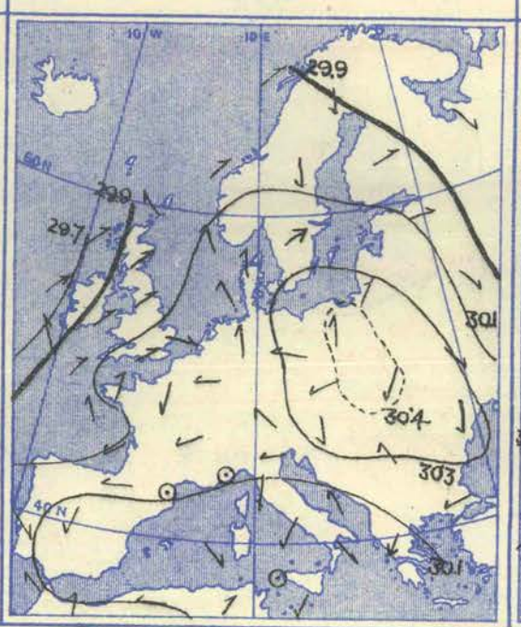
Barometer at 8 a.m. highest, 30·2 ins. to 30·3 ins. and upwards in a large anticyclone covering the southern half of Scandinavia and extending southwards over Germany and Austria-Hungary, and above 30·2 ins. in a smaller system embracing the southern half of the Bay of Biscay and the greater part of France. Lowest, 29·8 ins. (1) in a depression off our north-west coasts, and (2) in another over central and northern Russia. Changes in pressure slight and irregular during day. Depression in north-west moving northwards.

Thursday, 14th July, 1904.

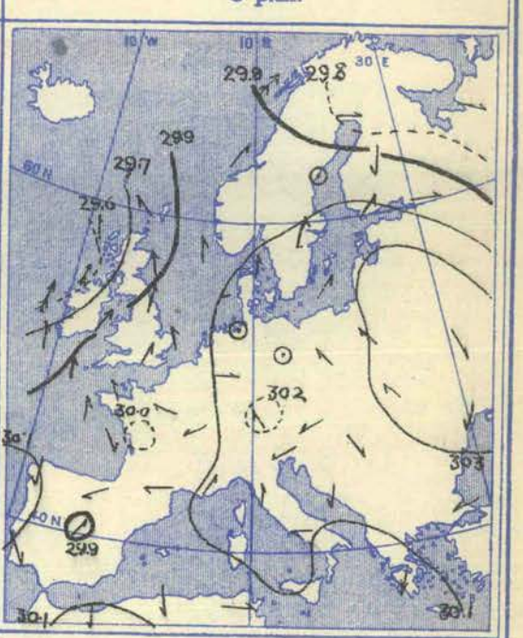
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. rainy in Ireland and cloudy at some of the stations in the west and north-west of Great Britain; very fine in almost all other regions. Some rain falling later in Norway, Scotland, Ireland, and Wales; slight generally, but 0·4 in. at Malin Head and Parsonstown, and 0·9 in. at Roche's Point.

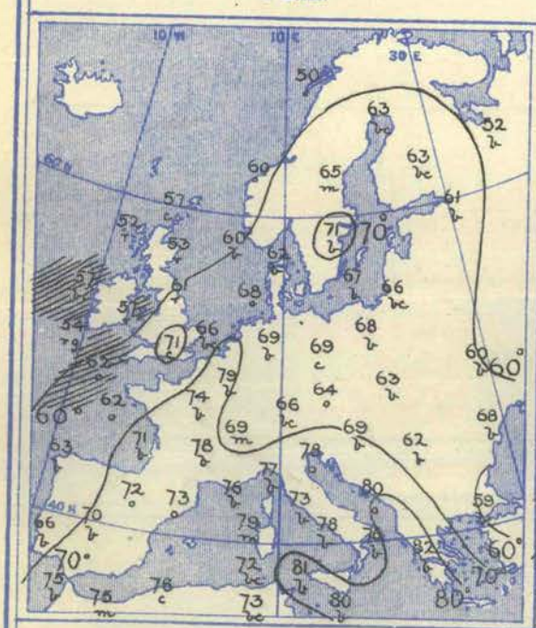
Temperature showing no decided change. Morning values ranging from 86° at Patras, 82° at Barcelona, and above 75° at most stations in the south, to 69° at Yarmouth, 68° at Stockholm, 63° at Uleaborg, 55° at Moscow, and to 51° at Archangel and Bodö. Rising later to 79° at Stockholm, 81° in London, to 91° at Berlin and Biarritz, 93° at Limoges and Toulouse, 97° at Madrid, and 104° at Tunis. Maxima no higher than 60° at some of our north-west coast stations.

Wind at a.m. light and anticyclonic in almost all Continental regions. Southerly at nearly all our own stations, light in the east and north, fresh or strong in the west, with a strong gale at Blacksod Point. Gale becoming general on our extreme north-west coasts by evening and wind increasing to strong breeze in the Irish Sea.

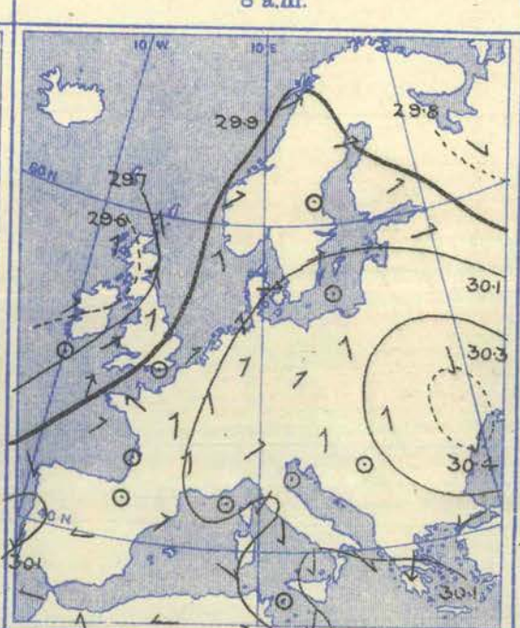
Barometer at 8 a.m. highest, 30·4 ins. and upwards in a very extensive anticyclone having its centre over Poland. Lowest, 29·7 ins. and less in a depression centred some distance off the west coast of Ireland. High pressure system moving eastwards during day, and the disturbance in the west travelling northwards. A shallow depression over the Bay of Biscay apparently moving eastwards to France.

Friday, 15th July, 1904.

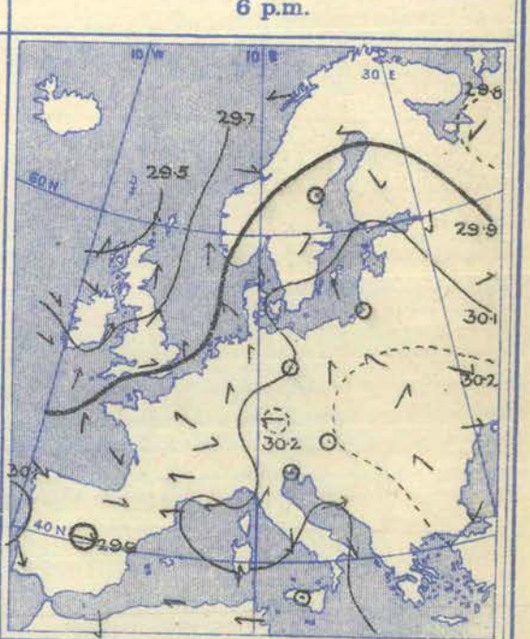
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over the greater part of our area, but dull in the north-west of Norway, and dull and rainy in most Irish, Welsh, and Scotch districts. Rain falling later over our western and northern districts and in parts of Scandinavia—more than half an inch at some Irish stations—and local thunderstorms occurring in the south-east of France.

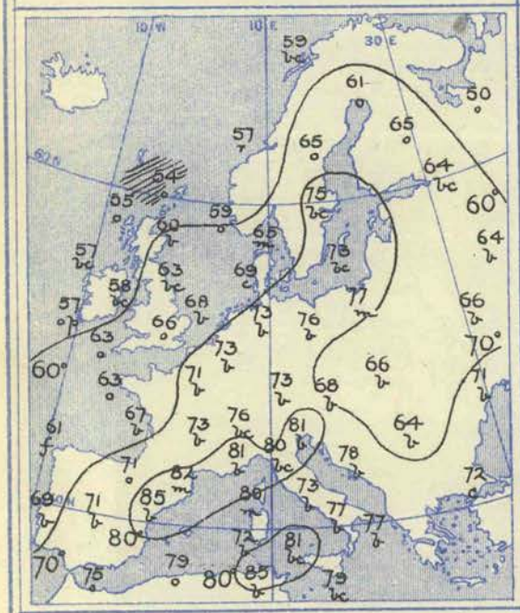
Temperature risen over the central and northern countries of the Continent. Morning readings ranging from 82° at Patras, a little below 80° at most southern stations, 71° in London and at Stockholm, and 63° at Haparanda, to 52° at Malin Head, Stornoway, and Archangel, and to 50° at Bodö. Rising during day to 85° in London, 84° at Margate, to above 90° in many parts of Germany, France, and southern Europe, and to 102° at Sfax. Maxima scarcely higher than 60° in Ireland, Wales, and the west and north of Scotland.

Wind at 8 a.m. mainly Southerly over the United Kingdom; light or moderate generally, but blowing a moderate gale on the Welsh coast. A light anticyclonic circulation prevailing over the Continent. Wind veering to West-North-West in Ireland by 6 p.m., and increasing to a strong breeze from South in the south-west of Norway. Little change elsewhere.

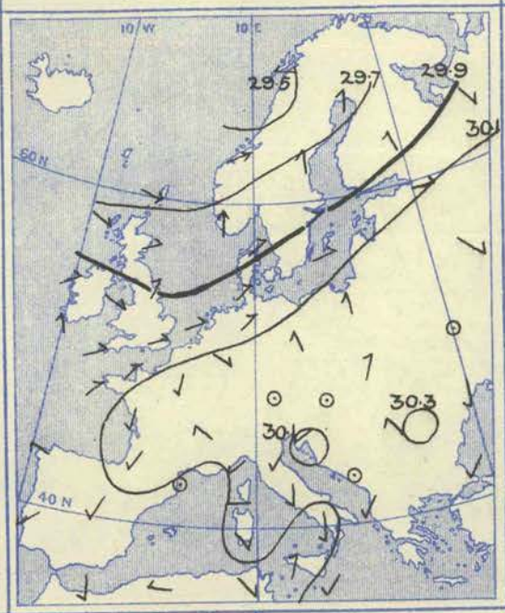
Barometer at 8 a.m. ranging from above 30·4 ins. in an anticyclone centred over the south-west of Russia, to 29·3 ins. at Archangel, and to below 29·6 ins. in a depression over our north-western districts and the adjacent part of the Atlantic. Latter system moving north-eastwards during day, and pressure increasing again in Ireland. A local disturbance forming over central Spain by evening. Russian anticyclone decreasing in intensity and moving southwards.

Saturday, 16th July, 1904.

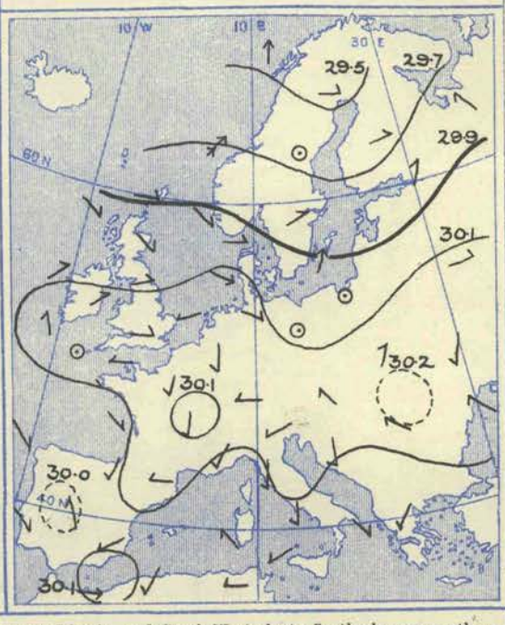
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull at a few stations in the west and north of our Islands and Scandinavia, with showers at Valencia Island and rain at Christiansund. Very fine over our area generally, but foggy at Perpignan and Corunna. Some rain falling later at several of our most western and northern stations, in Finland and Scandinavia, and a thunderstorm occurring at Nancy.

Temperature risen generally. Morning readings ranging from 85° at La Calle and Barcelona, and from above 70° over the major portion of central Europe and the south of Sweden, to below 60° on our own west and north coasts, and on the coast of Norway, and to 50° at Archangel. Rising later to 80° in London, 82° at Stockholm, 92° at Paris, 97° at Berlin, Frankfurt, and Lyons, 99° at Croisette, and 100° at Madrid. Maxima above 90° in most parts of Germany and France, and as high as 86° at Copenhagen. Below 65° at many of our own western and north-western stations.

Wind at 8 a.m. Westerly over our Islands, and South-Westerly to Southerly over northern Europe. Light or moderate generally, but strong on the Norwegian coast. Very light in force and variable in direction over central and southern Europe. Little change as a whole later, but a strong gale from South-West springing up at Christiansund.

Barometer in morning highest, above 30·4 ins. in a very large anticyclone, having its centre over Russia. Lowest, 29·5 ins. and less in a depression centred over the north of Norway. Latter system moving eastwards later and barometer rising very decidedly in the south-west of Norway and over the United Kingdom. Local baric minima and maxima forming in various parts of Europe.

IV.—GENERAL NOTES, etc.

At the commencement of the week a large anticyclone covered the United Kingdom and the North Sea, while pressure was lowest over the north of Russia and the Mediterranean, the gradients for North-Westerly winds over Scandinavia being moderate to rather steep. During the remainder of the week the system moved—at first northwards to Scandinavia, and subsequently very slowly in a general south-easterly direction to the south of Russia. Some shallow depressions were in the meantime observed in various parts of southern and south-western Europe, and transitory systems, either of high or low pressure, over the Bay of Biscay and France, while towards the end of the week rather large and deep disturbances moving in a northerly direction skirted our most western and northern coasts. The latter caused strong winds or gales over Ireland, Wales, and the west of Scotland, but, considered as a whole, the wind was light over Europe and usually anticyclonic. At the beginning of the week, however, the North-Westerly wind in Scandinavia and over the Baltic was decidedly strong, and in some places reached the force of a gale. Temperature was generally much higher than of late over all the more northern regions, and showed an upward tendency in the southern countries also. Maximum readings of 80° and above were recorded over the south and south-east of England, and values above 90° over Germany and the northern departments of France. On Wednesday the thermometer rose to 81° as far north as Hernösand. The general character of the weather was very fine, but some rain fell at times in the extreme north and north-west of our Islands, as well as in the northern parts of the continent, and some thunderstorms were experienced over France and in various parts of our Islands.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 164.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	14·0	− 18·6	11	− 15
STRATHPEFFER SPA	42·3	+ 12·7	35	+ 11
CRATHES	39·7	—	33	—
EDINBURGH	39·8	+ 6·8	34	+ 6
COCKLE PARK	50·8	—	43	—
NEWCASTLE-ON-TYNE	46·8	—	40	—
YORK	51·8	+ 12·4	45	+ 11
SKEGNESS	82·2	—	72	—
CROMER	80·8	—	71	—
LOWESTOFT	89·4	—	79	—
DUNMOW	91·1	—	81	—
SHEFFIELD	67·2	—	59	—
WORKSOP	64·3	+ 27·0	56	+ 24
THURCASTON	77·4	+ 37·2	69	+ 33
MARGATE	83·4	+ 38·0	75	+ 34
BROADSTAIRS	—	—	—	—
RAMSGATE	85·4	—	76	—
EASTBOURNE	84·5	+ 31·9	76	+ 29
BRIGHTON	78·8	+ 26·8	71	+ 24
WORTHING	78·1	—	70	—
BOGNOR	82·5†	—	74†	—
WESTBOURNE	78·7†	+ 28·0	71†	+ 25
VENTNOR HOSPITAL	77·4	+ 29·1	70	+ 26
BOURNEMOUTH	79·3	—	72	—
MARLBOROUGH	66·4	+ 23·8	59	+ 21
SOUTHPORT	68·2	—	59	—
RHYL	67·8	—	60	—
ABERDOVEY	60·4†	—	54†	—
TENBY	54·1	+ 6·9	48	+ 6
TORQUAY	76·7	+ 27·6	69	+ 24
NEWQUAY	52·8	+ 4·3	48	+ 4
GUERNSEY	78·9†	+ 21·7	72†	+ 20

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values below must be substituted for those which have already appeared.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Twenty-Seventh Year, No. 11, p. 62	Scarborough	—	30	—	34·0	40·0	− 0·9	—	30	—	—	—	—	—	—	—
" " " " "	Shrewsbury	—	—	—	34·2	41·4	+ 0·1	—	31	—	—	—	—	—	—	—
" " " " "	Shaftesbury	—	32	—	34·7	40·6	− 0·1	—	28	—	—	—	—	—	—	—
" " " " "	Landale	48·7	—	—	—	41·6	+ 0·3	19	28	—	—	—	—	—	—	—
" " " " "	Roche's Point	—	—	—	38·4	43·4	− 1·0	—	10	—	—	—	—	—	—	—
" " " " "	Sumburgh Head	—	—	—	—	—	—	—	—	—	0·37	− 0·27	—	—	—	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 29. TWENTY-NINTH WEEK, ENDING SATURDAY, JULY 23RD, 1904. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature' will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 170.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	74	37	62·7	47·2	54·4	1 below	87	0	0	0	978	− 28	477	− 72
	1. SCOTLAND, EAST	76	38	65·1	48·1	56·0	1 below	98	− 6	0	0	1100	−130	585	− 7
	2. ENGLAND, N.E.	79	42	67·9	51·8	59·3	0 (average)	121	+ 5	0	0	1350	+ 51	431	− 59
	3. ENGLAND, EAST	83	44	72·3	55·1	63·1	2 above	148	+20	0	0	1512	− 34	404	−131
	4. MIDLAND COUNTIES	85	40	74·5	52·1	62·5	3 above	144	+19	0	0	1448	−113	474	− 73
	5. ENGLAND, SOUTH	87	45	74·4	55·8	64·4	3 above	157	+21	0	0	1572	−116	345	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	76	43	69·2	51·0	59·5	2 above	123	+17	0	0	1216	− 95	375	− 42
	7. ENGLAND, N.W.	80	42	71·0	53·6	61·7	2 above	138	+21	0	0	1319	− 99	386	− 13
	8. ENGLAND, S.W.	84	47	71·9	56·8	63·9	4 above	153	+30	0	0	1567	− 29	252	− 53
	9. IRELAND, NORTH	75	48	66·6	53·3	59·5	2 above	123	+15	0	0	1247	−164	337	− 20
	10. IRELAND SOUTH	80	49	68·4	55·2	61·3	2 above	135	+17	0	0	1517	118	232	− 24
	— CHANNEL ISLANDS	82	53	70·5	58·6	64·1	3 above	155	+20	0	0	1810	0	80	− 41

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 170.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	1	7 less	133	+12	27·9	+ 3·7	47	+19	40	+16	741	− 3	27	0
	1. SCOTLAND, EAST	3	4	3 less	115	+11	15·1	− 0·3	34	− 1	29	0	770	− 60	29	− 2
	2. ENGLAND, N.E.	2	3	3 less	97	+ 1	10·9	− 1·4	51	+ 7	45	+ 6	847	− 61	32	− 2
	3. ENGLAND, EAST	1	less than half	5 less	93	− 5	10·3	− 1·6	73	+24	66	+22	973	− 27	37	− 1
	4. MIDLAND COUNTIES	2	4	2 less	103	+10	12·7	− 1·1	49	+11	44	+10	828	− 14	31	− 1
	5. ENGLAND, SOUTH	2	1	4 less	104	+13	14·3	+ 0·7	74	+24	67	+22	935	− 8	37	0
Principal Grazing Districts.	6. SCOTLAND, WEST	3	6	3 less	120	+13	27·1	+ 2·8	50	+ 9	44	+ 8	802	− 71	30	− 3
	7. ENGLAND, N.W.	3	4	3 less	113	+13	16·6	+ 0·4	47	+ 8	42	+ 7	867	+ 29	33	+ 1
	8. ENGLAND, S.W.	3	11	4 more	112	+11	20·3	+ 2·0	57	+10	52	+ 9	923	−100	35	− 4
	9. IRELAND, NORTH	4	9	2 more	137	+15	20·0	+ 2·3	39	+ 9	34	+ 8	765	− 49	29	2
	10. IRELAND, SOUTH	5	10	3 more	127	+17	22·6	+ 2·4	39	+ 4	34	+ 4	839	− 73	32	3
	— CHANNEL ISLANDS	4	5	0 (average)	126	+21	19·0	+ 3·7	68	+14	63	+13	1101	− 65	42	− 3

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather at first was very fine and dry, but with Monday less settled conditions began to spread gradually over the country from the south-westward, the atmosphere became close, and on each day, from Monday to Saturday, thunder or lightning, or both, occurred in various localities. As a general rule, the rainfall was slight, but on Friday an inch or more fell at Arlington and Falmouth, and on Saturday 1·3 in. at Bettws-y-Coed.

Temperature was below the mean in the north and east of Scotland and equal to it in England N.E., while in all other districts it was from 2° to 4° above. The highest of the maxima occurred on various dates, the warmest day being Sunday, when several places exceeded 80° (Southampton 87°). Only on Monday and Tuesday did Sumburgh Head pass above 53°. The lowest of the minima were also on irregular dates, and ranged from 37° in Scotland N. and 38° in Scotland E., to 49° in Ireland S. and 53° in the Channel Islands.

Rainfall was above the mean over Ireland and England S.W., equalled it in the Channel Islands, and less in all other districts. In Scotland N. and England E. and S. the fall was very slight.

Bright Sunshine about equalled the mean in Scotland E., all other districts having an excess. The percentage of the possible duration ranged from 67 in England S. and 66 in England E., to 34 over Ireland and 29 in Scotland E.

Barometer and Wind. A well-marked anticyclone covered our Islands at the beginning of the period, but it moved slowly north-eastward to the Norwegian coast on the advance from the Atlantic of a shallow depression, which by Wednesday morning had taken up a position off the Irish coast, and thenceforward it was the main feature in the conditions over us. At first the winds were light and variable, but from Monday they were chiefly from between South and East, blowing fresh or strong on the southern coasts in the early part of the week, moderate to very light afterwards.

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II.—DATA from which the SUMMARY on page 169 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	59	41	53·6	45·6	49·3	− 3·4	51	0	2	0·02	− 0·53	*	*	*	*
	Stornoway	67	43	63·4	47·0	54·6	+ 0·1	88	0	3	0·26	− 0·42	64·5	+ 33·1	54	+ 28
	Wick	65	38	59·7	47·0	52·9	− 2·3	76	0	1	0·05	− 0·52	*	*	*	*
	Lairg $	74	37	64·9	45·6	54·6	− 0·2	88	0	1	0·04	− 0·64	*	*	*	*
	Glencarron $	69	42	64·8	47·4	55·5	+ 0·6	95	0	3	0·10	− 1·29	*	*	*	*
	Fort Augustus $	68	41	62·8	48·2	55·0	− 1·8	91	0	3	0·28	− 0·44	44·0	+ 22·7	37	+ 19
	Fort William	73	44	70·0	49·7	59·1	+ 2·3	120	0	4	0·11	− 1·09	63·8	+ 35·8	55	+ 31
1. SCOTLAND, E.	Nairn	71	39	64·0	46·1	54·4	− 2·7	87	0	2	0·17	− 0·45	*	*	*	*
	Aberdeen	64	43	60·0	50·4	54·9	− 2·2	90	0	2	0·18	− 0·47	32·4	− 4·8	28	− 4
	Braemar $	73	38	66·0	45·3	54·9	+ 0·5	90	0	3	0·54	− 0·12	*	*	*	*
	Ochtertyre $	76	41	69·1	46·9	57·2	− 0·9	106	0	2	0·81	+ 0·09	*	*	*	*
	Leith	71	47	65·6	51·6	58·1	− 0·6	113	0	3	0·17	− 0·45	*	*	*	*
	Marchmont $	71	44	65·6	48·4	56·4	− 0·5	101	0	3	0·58	− 0·19	38·5	+ 0·1	34	0
2. ENGLAND, N.E.	Alnwick Castle	71	42	66·0	47·5	56·1	− 1·4	99	0	5	0·52	− 0·12	*	*	*	*
	Durham	71	43	67·5	49·8	58·0	− 1·1	112	0	2	0·11	− 0·53	46·7	+ 9·3	41	+ 8
	Shields	65	48	62·6	52·3	57·1	− 1·0	106	0	2	0·23	− 0·34	*	*	*	*
	Scarborough M	66	50	64·2	52·3	57·8	− 1·4	111	0	1	0·08	− 0·52	48·4	—	43	—
	Spurn Head	71	52	65·4	55·4	60·1	+ 0·2	127	0	2	0·45	+ 0·08	*	*	*	*
	Lincoln	78	50	73·4	53·8	62·9	+ 2·7	146	0	3	0·29	− 0·22	*	*	*	*
	Fulbeck (Lincolnshire)	79	47	75·9	51·5	62·9	+ 2·5	146	0	1	0·26	− 0·27	58·0	—	52	—
3. ENGLAND, E.	Hillington M	79	47	75·4	52·1	62·9	+ 2·0	146	0	2	0·09	− 0·55	65·5	+ 21·2	59	+ 19
	Yarmouth	70	56	66·4	58·6	62·2	+ 1·8	141	0	2	0·04	− 0·56	*	*	*	*
	Geldeston	80	44	72·1	52·8	61·8	+ 1·1	139	0	1	0·04	− 0·51	70·8	+ 23·6	64	+ 21
	Cambridge	83	50	77·6	53·5	64·7	+ 2·9	159	0	2	0·01	− 0·53	68·0	+ 22·2	61	+ 20
	Felixstowe	76	54	69·2	56·4	62·4	+ 1·3	143	0	1	0·03	—	76·4†	—	69†	—
	Clacton-on-Sea	76	53	69·3	57·4	62·9	+ 2·2	146	0	1	0·04	—	82·7†	—	75†	—
	Rothamsted	82	49	76·2	52·8	63·7	+ 3·3	152	0	1	0·02	− 0·54	77·1	+ 29·6	70	+ 27
	Shoeburyness	76	55	71·9	57·3	64·1	+ 2·8	155	0	0	0·00	− 0·40	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	73	46	69·3	50·1	59·0	+ 0·9	119	0	3	1·04	+ 0·42	42·7	—	38	—
	Bawtry (Hesley Hall)	78	40	75·4	48·3	60·9	+ 0·5	132	0	1	0·99	+ 0·42	*	*	*	*
	Nottingham	78	49	74·7	52·7	62·9	+ 1·9	146	0	1	0·20	− 0·37	50·1	—	45	—
	Colly Weston (Stamford)	84	50	78·7	53·6	65·3	+ 3·9	163	0	0	0·00	− 0·55	*	*	*	*
	Cheadle M	75	51	72·2	53·2	62·0	+ 3·9	140	0	2	0·04	− 0·63	*	*	*	*
	Birmingham (Edgbaston)	78	52	73·4	54·3	63·2	+ 3·4	148	0	3	0·23	− 0·37	49·6	—	45	—
	Shrewsbury	80	47	74·4	52·0	62·4	+ 3·0	143	0	4	0·11	—	*	*	*	*
	Hereford M	80	47	73·9	50·4	61·3	+ 0·6	135	0	2	0·33	+ 0·32	*	*	*	*
	Cirencester	83	49	75·2	52·1	62·9	+ 3·2	146	0	3	0·15	− 0·49	52·7	+ 8·3	48	+ 8
	Oxford	85	53	77·4	54·7	65·3	+ 4·0	163	0	2	0·09	− 0·45	63·0	+ 17·9	57	+ 16
5. ENGLAND, S.	London	85	54	79·4	56·4	67·1	+ 4·3	176	0	1	0·05	− 0·46	70·8‡	+ 28·9‡	64‡	+ 26‡
	Wisley (Surrey)	85	51	77·2	54·8	65·2	+ 2·7	162	0	3	0·08	—	71·6	—	65	—
	Swarraton (Alresford) M	83	45	76·2	52·5	63·5	+ 3·8	151	0	2	0·04	− 0·53	*	*	*	*
	Tunbridge Wells M	86	52	77·0	54·3	64·9	+ 3·9	160	0	1	0·10	—	83·3	—	76	—
	Dungeness	73	55	69·0	57·1	62·6	+ 1·2	144	0	1	0·01	− 0·36	87·1	—	79	—
	Hastings (St. Leonards)	77	55	72·2	56·6	63·9	+ 2·8	153	0	1	0·05	− 0·45	84·4	+ 32·3	77	+ 29
	Southampton	87	54	78·4	57·4	67·2	+ 4·9	176	0	3	0·18	− 0·39	69·7	+ 20·4	63	+ 19
	Portland Bill	75	56	67·3	58·4	62·5	+ 2·8	144	0	2	0·42	—	*	*	*	*
	Shaftesbury M	81	51	73·2	54·3	63·1	+ 3·8	148	0	2	0·11	− 0·54	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	75	43	71·1	48·1	58·8	+ 1·5	118	0	4	0·33	− 0·84	*	*	*	*
	Glasgow	71	47	65·5	51·3	57·9	+ 0·4	111	0	4	1·98	+ 1·22	42·9	+ 10·9	37	+ 9
	Cally $	76	46	72·3	50·5	60·6	+ 3·4	130	0	2	0·10	− 0·79	*	*	*	*
	Aspatria	75	45	70·6	51·1	60·2	+ 2·3	127	0	2	0·24	—	56·4	—	50	—
	Douglas (Isle of Man)	70	50	66·7	53·9	59·9	+ 2·6	125	0	3	0·15	− 0·52	50·8	+ 6·5	45	+ 6
7. ENGLAND, N.W.	Newton Rigg	72	42	69·4	47·7	57·8	0·0	111	0	3	0·38	—	60·2	—	53	—
	Stonyhurst	73	51	69·5	53·8	61·1	+ 2·7	134	0	1	0·04	− 0·92	45·2	+ 5·8	40	+ 5
	Blackpool M	77	49	71·2	51·9	60·9	+ 1·2	132	0	4	0·43	− 0·24	51·3	+ 10·8	45	+ 10
	Manchester (Prestwich)	77	49	73·6	53·5	62·9	+ 4·1	146	0	2	0·07	− 0·74	45·6	—	41	—
	Liverpool Obsy. (Bidston)	77	54	71·4	56·4	63·4	+ 3·4	150	0	2	0·20	− 0·44	40·5	—	36	—
	Chester (Hawarden Bridge)	77	51	72·2	55·3	63·2	+ 3·1	148	0	3	0·17	—	*	*	*	*
	Llandudno M	79	54	70·8	56·0	62·9	+ 2·6	146	0	4	0·70	+ 0·14	47·7	+ 7·3	43	+ 7
	Holyhead	74	54	68·4	56·1	61·8	+ 2·9	139	0	3	0·51	− 0·04	*	*	*	*
	Bettws-y-Coed	80	47	72·3	51·6	61·2	+ 1·6	134	0	4	1·42	—	39·0	—	35	—
8. ENGLAND, S.W.	Pembroke	76	54	67·7	57·6	62·3	+ 3·7	142	0	4	0·51	− 0·05	54·8	+ 9·0	49	+ 8
	Clifton	83	54	76·0	56·8	65·7	+ 4·8	166	0	3	0·80	+ 0·13	*	*	*	*
	Bath	82	50	75·6	54·6	64·4	+ 2·8	157	0	3	0·28	− 0·30	56·1	—	51	—
	Arlington (N. Devon)	79	47	70·9	56·0	62·9	+ 4·1	146	0	4	2·01	+ 1·02	*	*	*	*
	Cullompton M	84	50	75·8	55·9	65·2	+ 4·1	162	0	3	1·50	+ 0·86	51·6	+ 9·6	47	+ 9
	Falmouth	73	50	68·5	57·6	62·7	+ 2·4	145	0	4	1·48	+ 0·80	60·5	+ 9·7	56	+ 9
	Plymouth	74	53	69·1	59·3	63·9	+ 2·6	153	0	3	0·78	+ 0·18	62·6	+ 15·9	57	+ 15
9. IRELAND, N.	Malin Head	68	49	64·3	51·3	57·4	+ 0·1	108	0	4	0·56	− 0·10	*	*	*	*
	Edenfel (Omagh)	75	48	69·6	52·1	60·2	+ 3·4	127	0	5	1·93	+ 1·17	*	*	*	*
	Blacksod Point	74	53	67·1	56·9	61·6	+ 3·6	137	0	3	0·79	+ 0·09	*	*	*	*
	Markree Castle	75	52	70·1	54·5	61·8	+ 4·8	139	0	5	0·85	+ 0·02	40·1	+ 11·5	36	+ 10
	Armagh	71	48	67·1	52·1	59·1	+ 1·3	120	0	4	0·75	+ 0·03	37·7	+ 6·4	33	+ 6
	Donaghadee	65	50	61·1	52·7	56·6	− 0·8	102	0	3	0·45	− 0·20	*	*	*	*
10. IRELAND, S.	Dublin	74	54	69·0	55·9	62·0	+ 1·8	140	0	4	0·27	− 0·31	50·1	+ 12·7	45	+ 11
	Birr Castle	79	53	71·3	54·9	62·5	+ 3·9	144	0	4	1·18	+ 0·52	35·2	+ 4·0	31	+ 4
	Kilkenny	74	52	68·1	55·6	61·4	+ 2·4	136	0	5	0·87	+ 0·25	*	*	*	*
	Waterford	75	52	68·9	55·7	61·8	+ 2·1	139	0	4	0·79	+ 0·07	*	*	*	*
	Roche's Point	70	55	64·3	56·9	60·3	+ 0·8	128	0	7	0·64	− 0·03	*	*	*	*
	Valencia	77	51	67·3	54·9	60·7	+ 2·0	131	0	6	1·22	+ 0·31	30·1	− 4·4	27	− 4
	Killarney	78	53	68·6	55·5	61·6	+ 3·2	137	0	6	1·35	+ 0·54	*	*	*	*
	Foynes	80	49	69·9	52·2	60·4	+ 2·5	129	0	4	1·70	+ 0·97	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	68	56	66·6	57·7	61·8	+ 1·3	139	0	5	0·79	+ 0·26	55·2	+ 5·7	51	+ 5
	Jersey	82	53	74·4	59·4	66·4	+ 3·8	171	0	3	0·24	− 0·30	70·4	+ 15·4	65	+ 14

Stations Marked M are in connection with the Royal Meteorological Society, and those marked $ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

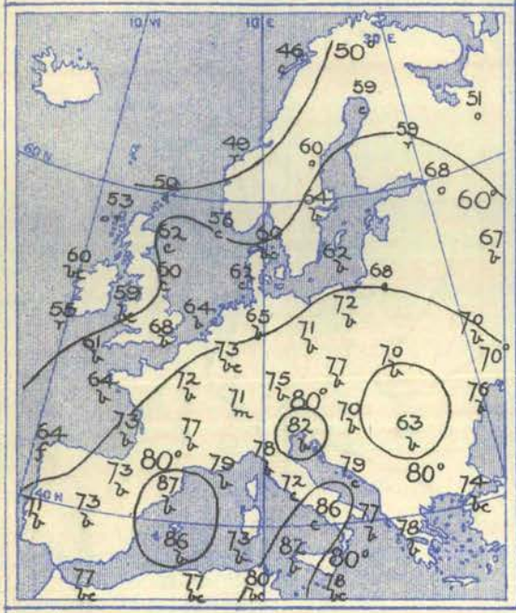
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

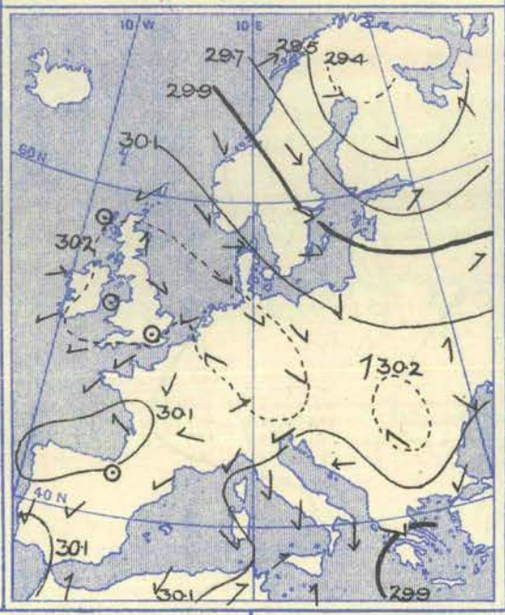
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 17th July, 1904.

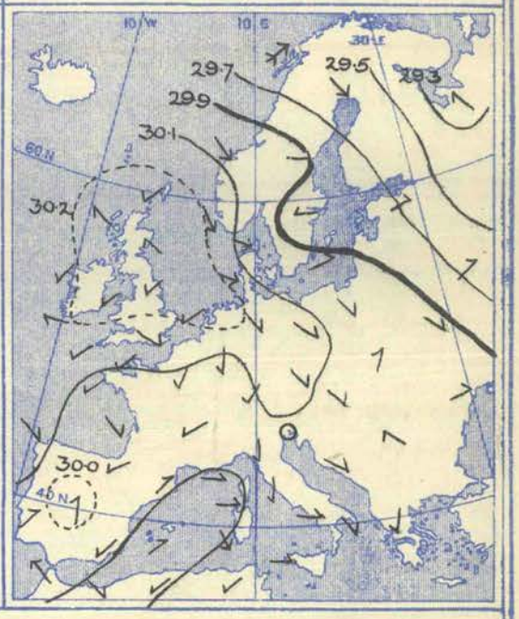
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright generally, but rainy in the south of Ireland, the Hebrides, and also at Christiansund and Kuopio, and fog prevailing at Corunna. More than 1·2 ins. of rain falling later at Bodö, and smaller amounts at some other northern stations and at Frankfurt, but weather remaining very fine as a whole.

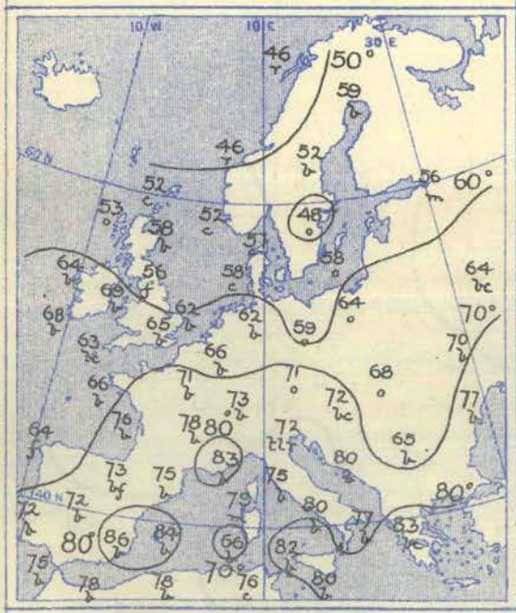
Temperature fallen quickly in Scandinavia, Finland, Denmark, and northern Germany, risen in most other regions. Morning readings highest, 87° at Barcelona, above 70° over the major portion of the Continent and at Clacton-on-Sea, and 68° at St. Petersburg. Lowest, 46° at Bodö, 50° in the Shetlands, 55° at Valencia Island, and below 60° at several of our own western and northern stations. Rising subsequently to 85° in London and at Oxford, 82° at Bath and Jersey, 95° at Frankfurt, Buda-Pesth, and Trieste, 98° at Paris and Nantes, 100° at Bilbao and Sfax, 101° at Bordeaux, and 102° at Madrid.

Wind at 8 a.m. moderate to strong from North-West or West over Scandinavia, light from South-West at St. Petersburg, and from South-East at Archangel. Light, with a general cyclonic circulation, over Europe as a whole. No great change later, but a fresh South-West gale setting in at Bodö.

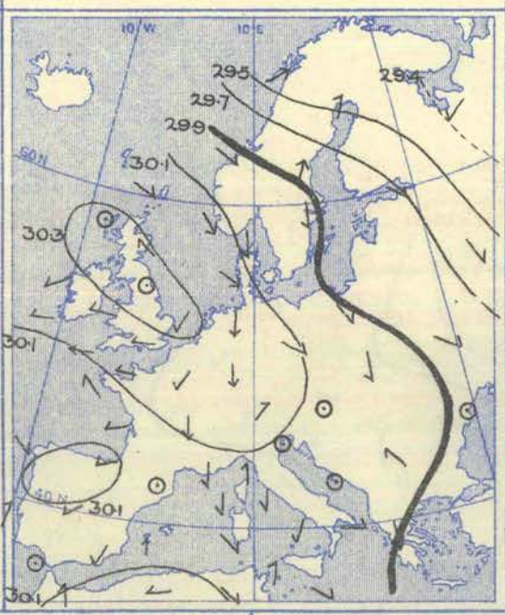
Barometer at 8 a.m. highest, 30·1 ins. to 30·2 ins. and upwards in an anticyclone of an irregular form covering nearly all the southern half of our area. Lowest, 29·4 ins. and less in a depression having its centre over Lapland. Below 29·9 ins. in another system over the Grecian Archipelago. Barometer falling over the north-eastern parts of Europe during day, and the anticyclone becoming reduced in size. Another depression reaching the north of Norway from the westward.

Monday, 18th July, 1904.

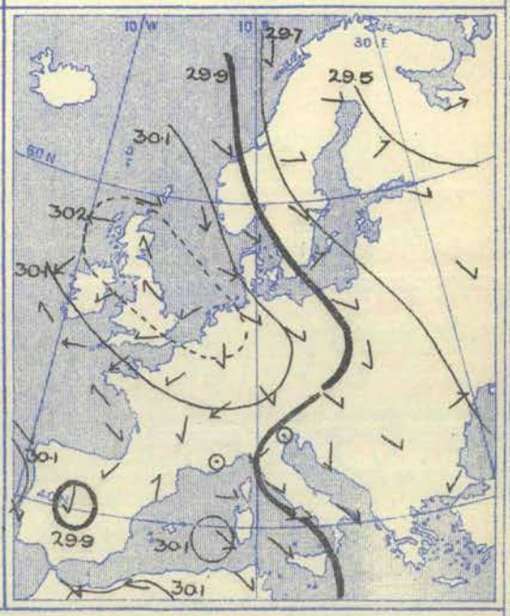
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. continuing very fine and bright generally, but overcast or cloudy over Denmark and North Germany, and rainy on the west coast of Norway and at Archangel. Thunderstorms, without much rain, occurring later in the west and south of France and at Jersey, but nearly an inch of rain falling at Nantes. Rain continuing all day at Archangel and yielding 0·95 in.

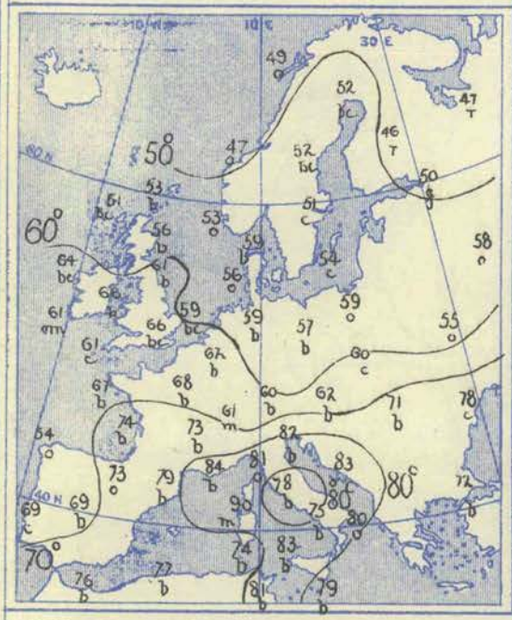
Temperature fallen decidedly over Scandinavia, Denmark, and the greater part of Germany. Morning readings ranging from above 80° at many stations in the south, and 70° or above over the major part of France, central Europe, and the south of Russia, to below 60° over the northern half of our Islands and northern Europe, and to 46° at Christiansund and Bodö. Rising during day to 80° at Bath, 81° at Aberystwyth and Jersey, 82° at Paris, and to 90° or above in several parts of France and southern Europe. Highest reading, 102° at Limoges.

Wind in morning showing an extensive cyclonic circulation over our Islands and the western and central parts of the Continent, both the North-Westerly current in Denmark and that from East on our southern coasts being rather strong. Light variable airs prevailing in most of the southern regions, but a moderate Northerly gale at Athens. Scarcely any change occurring later.

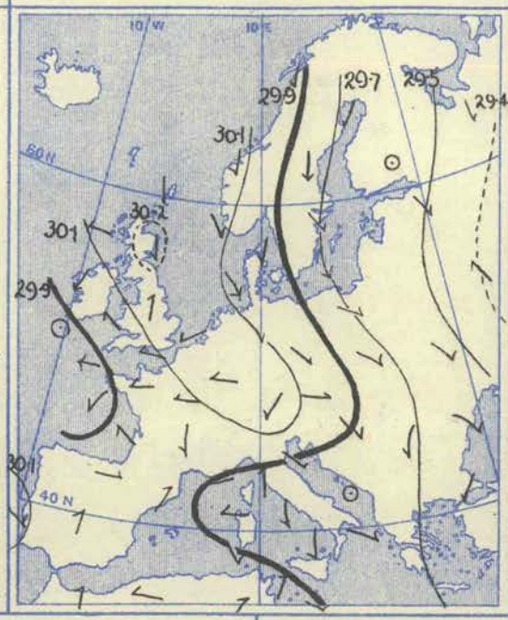
Barometer at 8 a.m. ranging from 30·3 ins. and upwards in an anticyclone centred over England to 29·77 ins. at Athens, and to below 29·4 ins. in Lapland and the extreme north of Russia. Anticyclone giving way somewhat and moving northwards later, and shallow depressions appearing over Spain and the Bay of Biscay. Depression in extreme north moving eastwards, and pressure increasing briskly in the north of Norway.

Tuesday, 19th July, 1904.

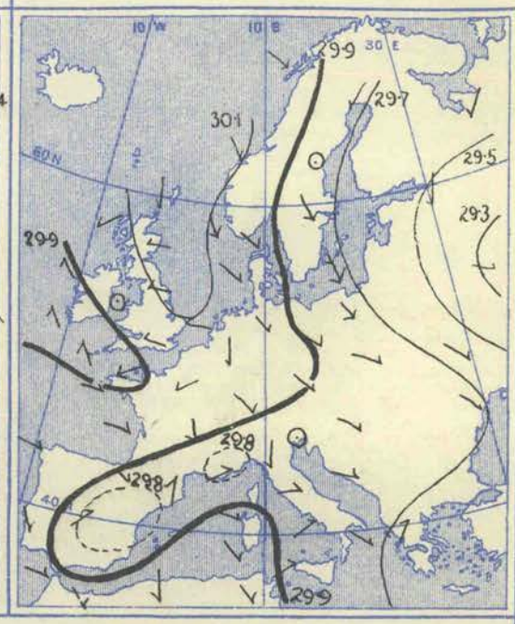
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull in the south of Ireland, in Portugal, and along the north coast of Spain, and also in the west of Norway, Russia, and Finland. Rain falling at Archangel and at some Finnish stations, and thunder occurring at Jersey. Fine and bright in nearly all other regions, but rainy at Swinemünde. Some rain falling later in several parts of Russia, Finland, North Germany and Sweden, and thunderstorms experienced over the western and southern districts of the United Kingdom.

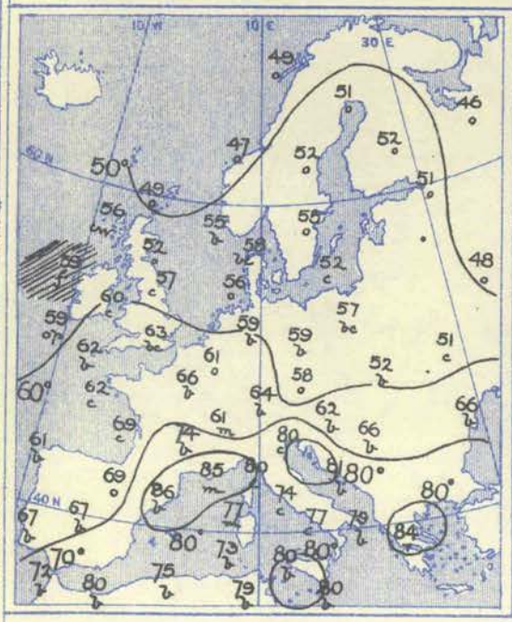
Temperature risen in most parts of southern Europe, fallen in the centre and at most northern stations. Morning readings highest, 84° in the Riviera, 80° or above on most shores of the Adriatic, 78° at Odessa, and 76° at Lorient, but decreasing to below 60° over North Germany, Scotland, and the north of Europe, and to below 50° in places. Rising later to 104° at Cette and Limoges, 99° at Perpignan, 97° at Athens, 94° at Rome, 91° at Trieste and Cagliari, 87° at Paris, 82° at Aberystwyth, and 81° at Bath. Maxima only 62° at some of our east coast stations, and 63° at Hamburg.

Wind at 8 a.m. moderate to strong from North to North-West over Scandinavia, Denmark, and the Baltic, and light from the same quarter over Russia, moderate to fresh or strong from East on our south and south-west coasts, and light from the Eastward or South-Eastward over England and Ireland generally. Light and variable over the Mediterranean region and also in Scotland. No general change later, but Easterly current extending to Scotland by evening, and North-North-West wind increasing to a gale at Wisby.

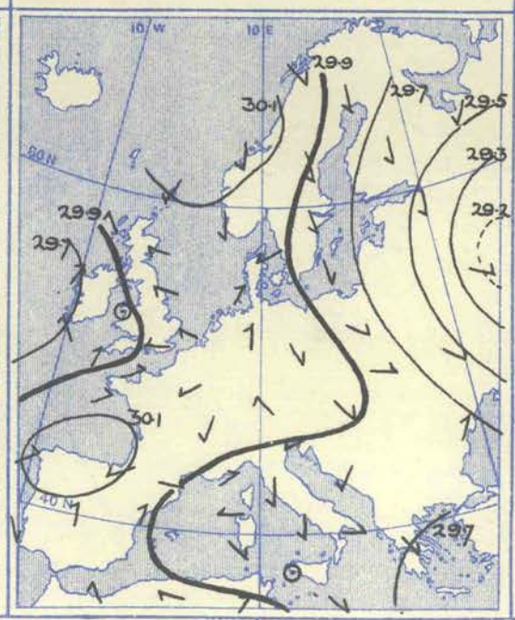
Barometer in morning ranging from 30·1 ins. to upwards of 30·2 ins. in an elongated anticyclone extending from central Europe to beyond the north of Scotland, to 29·9 ins. and less in a depression off our south-west coasts, and to below 29·4 ins. in a large disturbance over Russia. Depression in south-west moving slowly northwards during day, and other systems appearing over the Riviera and central Spain. Anticyclone giving way somewhat and at the same time travelling northwards.

Wednesday, 20th July, 1904.

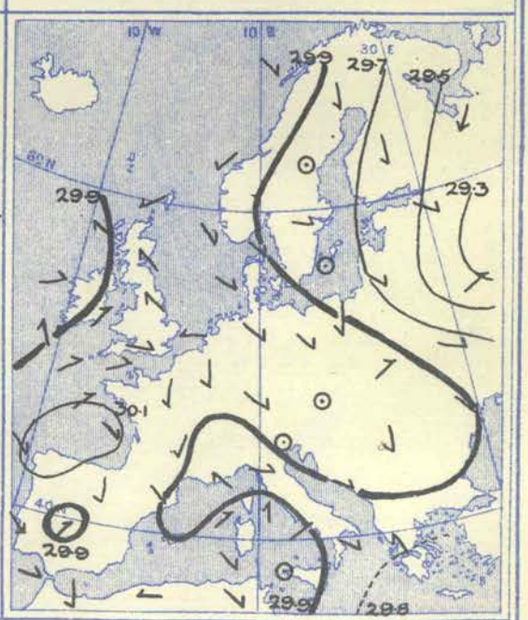
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast in the south-west of France and over the northern half of our area generally, with rain at Cape Gris Nez and rain or passing showers in Ireland. Fine in nearly all the more southern countries, but rainy at Athens. Some rain falling later at a few of our western and northern stations, at Moscow, and in Sweden; weather remaining fair and dry generally.

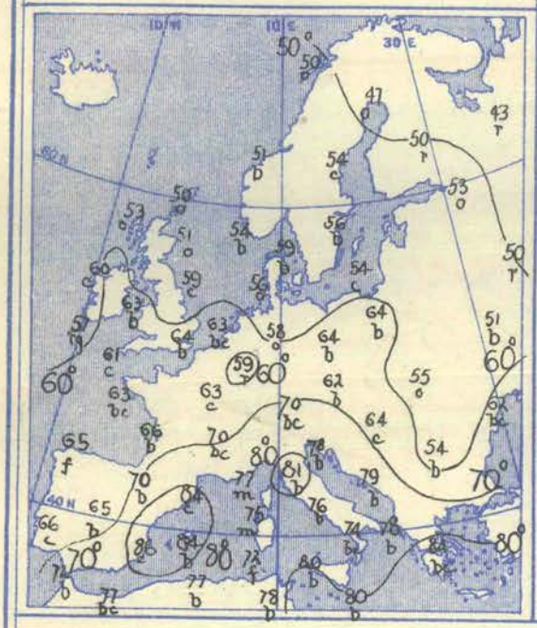
Temperature fallen quickly in Russia, Poland, and France, and slightly in many other regions. Morning readings highest, 86° at Barcelona, 84° at Athens, and about 80° at several other stations in the south. Lowest, 46° at Archangel, 47° at Christiansund, 48° at Moscow, 49° in the Shetlands, and 51° at Kiev and Warsaw. Below 60° in most parts of the United Kingdom. Rising during day to 102° at Croisette, 97° at Athens and Cagliari, 94° at Florence, 83° at Paris and Brussels, and 78° in London. Maxima below 60° over northern Europe, and not much above it on the coast of East Anglia.

Wind in morning light to fresh from the Northward over Scandinavia, Finland, and the Baltic, and light from North-West and West in the south-west and south of Russia. Light or moderate from the Westward over the English Channel and from South-East or East over our Islands generally. Light anticyclonic airs prevailing over the Bay of Biscay, and light winds from no general direction over the Mediterranean. Very little change occurring later.

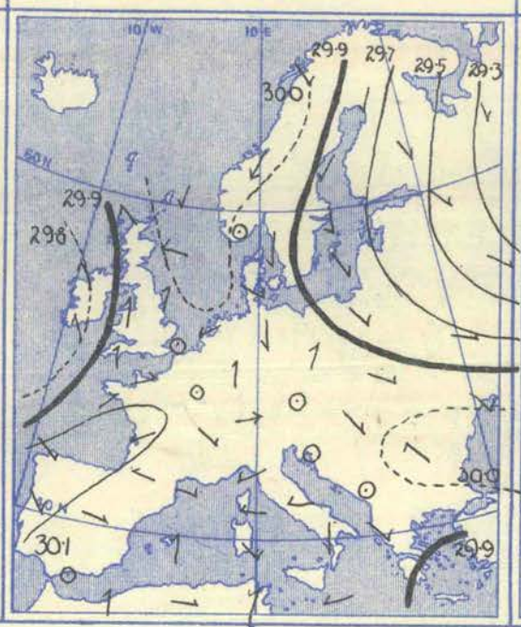
Barometer at 8 a.m. highest, (1) 30·1 ins. and upwards in an anticyclone over the southern part of the Bay of Biscay and the north of Spain, (2) above 30·1 ins. to 30·0 ins. in a large system extending from off the west of Norway across the North Sea to central Europe. Lowest, 29·2 ins. and less in a depression near Moscow. Below 29·8 ins. in another system off Ireland, and below 29·7 ins. over the Grecian Archipelago. No change in the general distribution of pressure later; northern anticyclone decreasing somewhat in intensity, and a small depression forming over central Spain.

Thursday, 21st July, 1904.

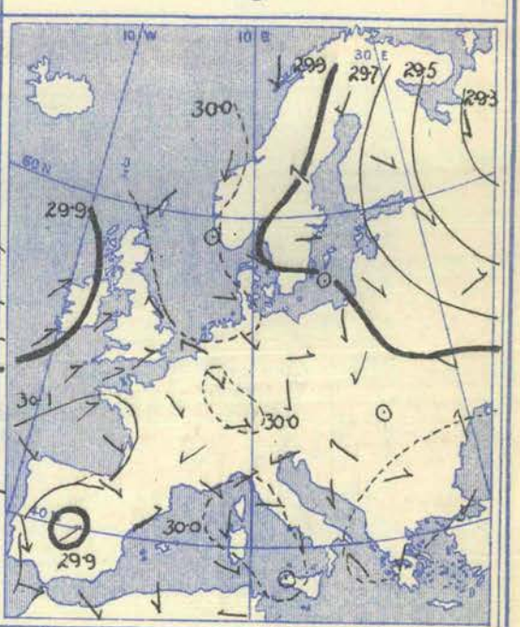
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. dull in many parts of Ireland, Scotland, the Netherlands, Finland, Poland, and the northern half of Russia, with rain in places. Very fine elsewhere. Slight rain falling later at Scilly, Pembroke, and Spurn Head, and thunder and lightning occurring at Lyons. Continuing very fine generally.

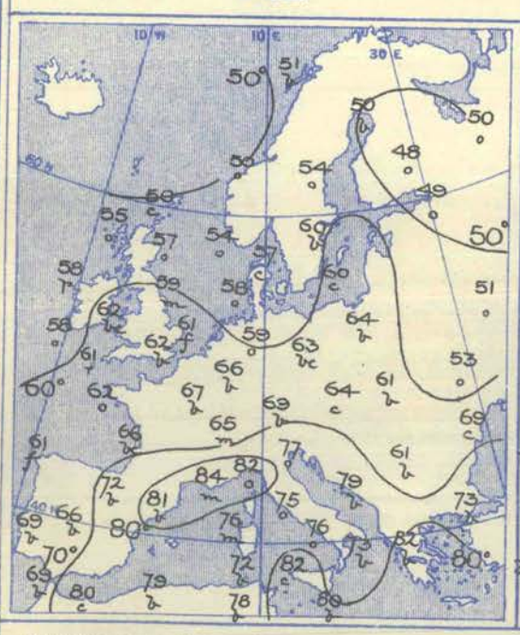
Temperature risen a little in most regions. Morning readings ranging from 84° at Athens, and between 75° and 80° in the south generally, to below 60° in Scotland, the north-east of England, Scandinavia, Denmark, the greater part of Russia, Poland, and at Hermanstadt. Below 50° in the extreme north, and as low as 43° at Archangel. Maxima during day above 70° in many parts of our Islands, and 80° in London; above 80° in France and most stations in central Europe, and above 90° in many southern regions. Highest values, 97° at Brindisi and 100° at Sfax.

Wind at 8 a.m. varying greatly in direction, but nowhere strong in force. Mainly Northerly to North-Westerly over northern Europe, and drawing into West in the south of Russia. Southerly in Ireland and Wales, Westerly over the English Channel, but Easterly over England and Scotland generally. Very variable airs prevailing over the southern countries. Scarcely any change later.

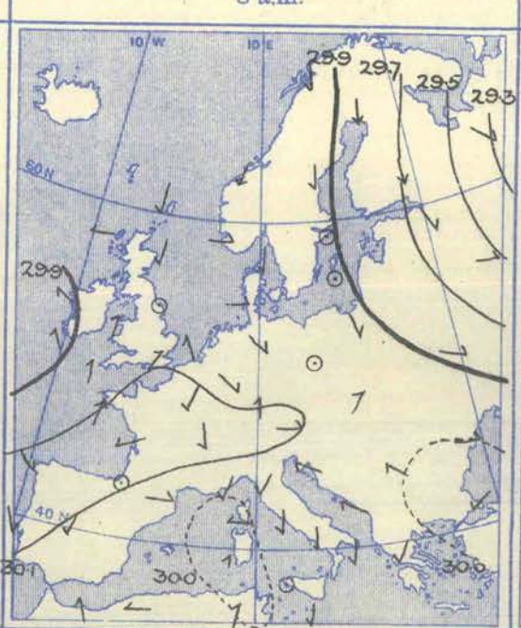
Barometer at 8 a.m. highest, 30·1 ins. to 30·0 ins. in a feeble and irregularly shaped anticyclone stretching from the north of Spain to Bohemia, and but little lower in another system extending from the west of Norway and the Atlantic down the North Sea. Lowest, below 29·3 ins. in a depression over the north of Russia. Less than 29·9 over Greece, and below 29·8 ins. off the west of Ireland. Changes slight and irregular during day; shallow depressions forming over central Europe and central Spain.

Friday, 22nd July, 1904.

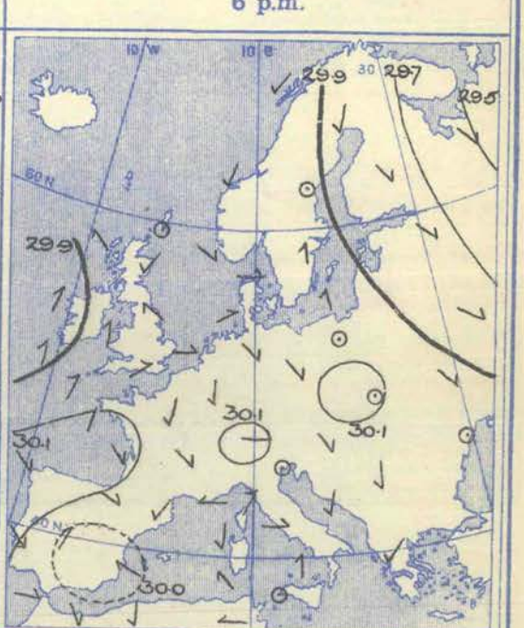
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of England, as well as at most of the Continental stations, but cloudy and showery in Ireland and Wales, and steady rain falling at Roche's Point and Scilly. Rain later at most of our western and northern stations, heavily in places, and thunderstorms over the south of France.

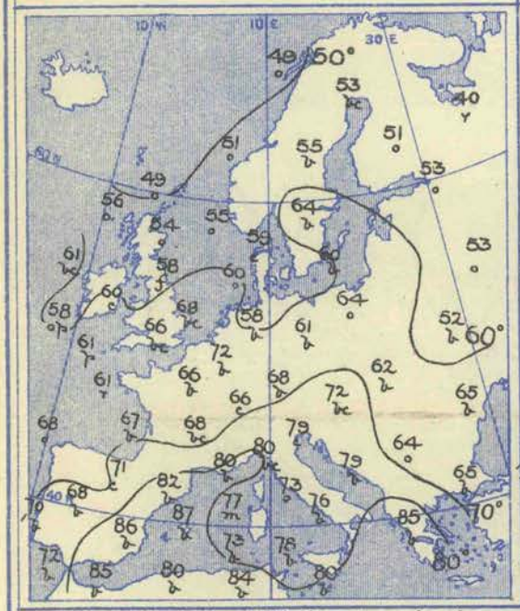
Temperature risen over western Europe as a whole, fallen slightly in Ireland, Wales, some parts of Germany, and the south and east of England. Morning readings highest, 84° at Cape Sicié, 82° at Athens, Palermo, and Leghorn, above 70° over southern Europe generally, and above 60° over the greater part of England, as well as in France, Germany, Austria, and southern Russia, below 60° over Ireland and Scotland, and below 50° over north-western Russia. Rising during day to between 70° and 75° in most parts of England, and to 80° in London; exceeding 80° over France and central Europe, touching 90° at many stations on the shores of the Mediterranean, reaching 95° at Athens, Florence, and Madrid, and also in some parts of Algeria.

Wind light from South or South-West over England and the south of Ireland, South-Easterly in the north of Ireland, and calm or very light from the Eastward in Scotland. Variable on the Continent generally, moderate from North and North-West over the Baltic and north-western Russia. No change of importance during day.

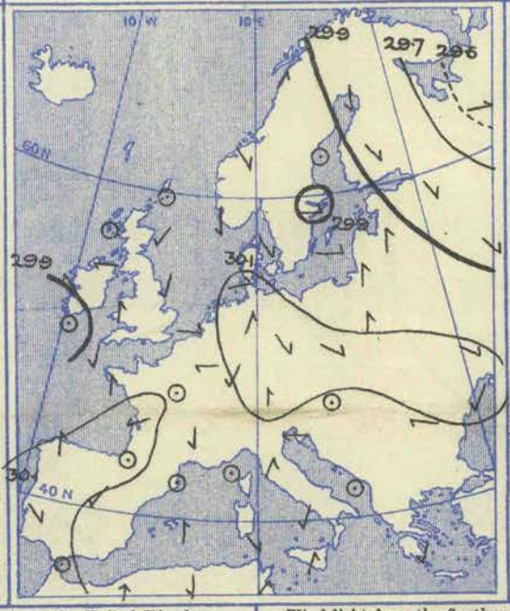
Barometer changing very little over our Islands, rising at most of the Continental stations. Highest, 30·1 ins. and upwards over Germany, the greater part of France, and the north-western portion of the Spanish Peninsula. Lowest, 29·3 ins. and less over northern Russia, and 29·9 ins. and less over the south of Ireland and the neighbouring portions of the Atlantic. No material change later.

Saturday, 23rd July, 1904.

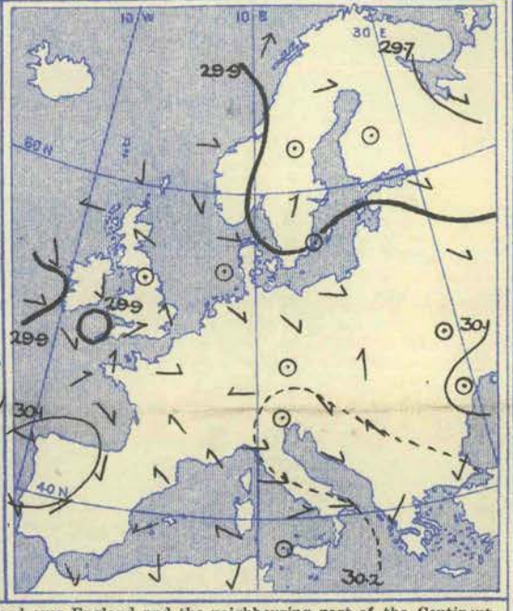
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull in the western and northern parts of the United Kingdom, and also over the west of Norway and northern Russia. Fog reported at Shields and Donaghadee. Showers at Valencia and Scilly, and steady rain at Brest and St. Petersburg. Fine and bright in the east and south-east of England and on the Continent generally. Rain later in many parts of Ireland and England, as well as at a few southern French stations, where thunderstorms occurred.

Temperature risen a little in the south and south-east of England, changed little and irregularly elsewhere. Morning readings highest, 87° at Palma, 86° at Alicante, and 80° or rather above at several Mediterranean stations, above 70° in many parts of central Europe, and exceeding 60° over the greater part of England, France, Germany, and Austria. Lowest, 48° at Archangel, 49° at Haparanda and Sumburgh Head, and 51° at Kuopio and Christiansund. Rising during day to above 70° in many parts of England, and to 79° in London. Much higher values reported from the Continent, the thermometer rising to considerably above 80° over central Europe, and exceeding 90° at many of the southern European stations.

Wind light from the Southward over England and the neighbouring part of the Continent. Calm or Easterly in Ireland and Scotland, and North-Westerly light over north-western Russia and the Baltic. Light and variable elsewhere. No change of importance later.

Barometer still showing very little movement over western Europe, but rising rather decidedly over Russia. Highest, 30·1 ins. and upwards in two areas, one over central Europe, the other over the western parts of France and the Spanish Peninsula. Lowest, 29·6 ins. and less over the White Sea, and 29·9 ins. and less over the south of Ireland and the neighbouring parts of the Atlantic. Shallow depression appearing over the south-west of England later, and high pressure over central Europe dispersing.

IV.—GENERAL NOTES, etc.

Throughout the week the distribution of pressure was very irregular over Europe generally, many small local areas of relatively high or of low pressure forming. The anticyclone which was over our Islands at the beginning of the period extended south-eastward as far as the Black Sea. Subsequently pressure was highest about the Spanish Peninsula and the Bay of Biscay, and thence into central Europe, while a disturbance of slight intensity remained almost stationary off our own western coasts. The depression which had skirted our north-western coasts at the close of the preceding week passed on to Lapland and northern and eastern Russia, and was only disappearing beyond Archangel at the close of the present week. During the first half of the period this disturbance was accompanied by strong winds or gales from between West and North in many parts of Scandinavia, but with the exception of a fresh or strong Easterly breeze on our southern coasts about the same time, the winds experienced over the region under observation were mostly moderate to very light in force and the direction variable. As a rule the weather was very fine and dry in our Islands and on the Continent, but towards the close local thunderstorms resulted in some heavy falls of rain in England and France. The highest shade temperatures registered were 104° at Cette and Limoges on Tuesday, at Laghouat on Thursday and Saturday, and 102° at Croisette on Tuesday.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 170.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	24·5	− 7·1	20	− 6
STRATHPEFFER SPA	38·4	+ 9·9	33	+ 8
CRATHES	32·3	—	28	—
EDINBURGH	—	—	—	—
COCKLE PARK	44·5	—	39	—
NEWCASTLE-ON-TYNE	26·8	—	24	—
YORK	44·1	+ 5·1	39	+ 5
SKEGNESS	64·9	—	58	—
CROMER	70·1	—	63	—
LOWESTOFT	65·7	—	59	—
DUNMOW	82·6	—	74	—
SHEFFIELD	43·1	—	39	—
WORKSOP	40·7	+ 3·9	36	+ 3
THURCASTON	52·6	+ 12·8	47	+ 12
MARGATE	74·1	+ 28·8	67	+ 26
BROADSTAIRS	76·3	—	69	—
RAMSGATE	76·0	—	69	—
EASTBOURNE	79·3	+ 26·9	72	+ 25
BRIGHTON	75·7	+ 23·7	69	+ 22
WORTHING	73·7	—	67	—
BOGNOR	78·7†	—	72†	—
WESTBOURNE	71·3†	+ 20·9	65†	+ 19
VENTNOR HOSPITAL	67·9	+ 19·6	62	+ 18
BOURNEMOUTH	63·8	—	58	—
MARLBOROUGH	62·2	+ 20·0	57	+ 18
SOUTHPORT	39·4	—	35	—
RHYL	45·3	—	40	—
ABERDOVEY	49·8†	—	45†	—
TENBY	54·3	+ 8·1	49	+ 7
TORQUAY	63·0	+ 14·0	58	+ 13
NEWQUAY	54·7	+ 6·7	50	+ 6
GUERNSEY	77·5†	+ 20·7	72†	+ 19

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

Reports received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Week ending June 18th, 1904	Worthing	—	—	—	—	—	—	—	—	—	—	—	41·3	—	36	—
" " 25th "	Worthing	—	—	—	—	—	—	—	—	—	—	—	62·6	—	55	—
" " "	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	55·9	—	49	—
" July 2nd "	Bognor	—	—	—	—	—	—	—	—	—	—	—	83·5	—	74	—
" " 16th "	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	89·1	—	80	—

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TWENTY-SEVENTH YEAR. Vol XXI. (New Series.) No. 30. THIRTIETH WEEK, ENDING SATURDAY, JULY 30TH, 1904. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 176.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	76	41	64·9	50·3	57·1	2 above	106	+18	0	0	1084	− 10	477	− 72
	1. SCOTLAND, EAST	76	43	63·5	50·6	56·6	0 (average)	102	− 1	0	0	1202	−131	585	− 7
	2. ENGLAND, N.E.	79	51	65·5	55·5	60·2	1 above	127	+12	0	0	1477	+ 63	431	− 59
	3. ENGLAND, EAST	81	51	71·8	57·9	64·3	4 above	156	+28	0	0	1668	− 6	404	−131
	4. MIDLAND COUNTIES	83	50	68·9	56·2	62·1	2 above	141	+17	0	0	1589	− 96	474	− 73
	5. ENGLAND, SOUTH	83	50	70·2	57·2	63·2	2 above	148	+12	0	0	1720	−104	345	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	71	48	65·7	53·2	59·1	2 above	120	+14	0	0	1336	− 81	375	− 42
	7. ENGLAND, N.W.	76	42	67·6	55·8	61·3	2 above	135	+18	0	0	1454	− 81	386	− 13
	8. ENGLAND, S.W.	75	48	66·7	56·6	61·3	1 above	135	+12	0	0	1702	− 17	252	− 53
	9. IRELAND, NORTH	71	48	65·5	54·5	59·6	2 above	123	+15	0	0	1370	−149	337	− 20
	10. IRELAND SOUTH	75	47	67·3	54·7	60·5	2 above	130	+12	0	0	1647	−101	232	− 24
	— CHANNEL ISLANDS	73	54	67·7	58·4	62·7	1 above	145	+ 9	0	0	1955	+ 9	80	− 41

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 176.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	1	8 less	134	+ 9	28·0	+ 2·9	41	+13	35	+12	782	+ 11	28	0
	1. SCOTLAND, EAST	1	1	6 less	116	+ 8	15·2	− 0·9	15	−25	13	−22	785	− 85	28	− 3
	2. ENGLAND, N.E.	5	12	7 more	102	+ 3	12·1	− 0·8	12	−29	11	−26	859	− 90	31	− 3
	3. ENGLAND, EAST	5	19	13 more	98	− 3	12·2	− 0·3	33	−20	31	−18	1006	− 47	37	− 2
	4. MIDLAND COUNTIES	5	22	16 more	108	+12	14·9	+ 0·5	14	−23	13	−21	842	− 37	31	− 1
	5. ENGLAND, SOUTH	5	12	7 more	109	+15	15·5	+ 1·4	35	−14	32	−13	1000	− 22	36	− 1
Principal Grazing Districts.	6. SCOTLAND, WEST	2	3	6 less	122	+11	27·4	+ 2·2	19	−20	17	−17	821	− 91	30	− 3
	7. ENGLAND, N.W.	3	5	3 less	116	+12	17·1	+ 0·2	21	−15	20	−14	888	+ 14	32	+ 1
	8. ENGLAND, S.W.	6	24	17 more	118	+13	22·7	+ 3·7	22	−23	21	−22	945	−122	34	− 5
	9. IRELAND, NORTH	5	9	2 more	142	+15	20·9	+ 2·5	28	− 2	25	− 2	793	− 51	29	− 2
	10. IRELAND, SOUTH	5	8	0 (average)	132	+18	23·4	+ 2·4	31	− 3	29	− 3	870	− 76	32	− 3
	— CHANNEL ISLANDS	6	15	10 more	132	+24	20·5	+ 4·6	37	−17	35	−16	1138	− 82	42	− 3

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was very dull over the Kingdom generally, with occasional heavy thunderstorms over England and at some Irish stations. In Scotland the weather continued dry.

Temperature was again above the mean except in Scotland E., the excess ranging from 1° in England N.E., the Channel Islands, and England S.W., to 4° in England E. The highest of the maxima were recorded either at the beginning or end of the period, and ranged from 83° in England S. and the Midland Counties, to 73° in the Channel Islands, and to 71° in Scotland W. and Ireland N. The lowest of the minima, which were mostly registered during the latter half of the week, varied from 41° in Scotland N. and 42° in England N.W., to 54° in the Channel Islands.

Rainfall was extremely heavy in several English localities, especially in the Midlands and England S.W., but in England N.W. the fall was less than the normal. At Hillington, during a thunderstorm on Saturday afternoon, 1·56 ins. fell within thirty-five minutes. Very heavy rain was also experienced at Huddersfield, the total fall for the week being 4·13 ins., of which as much as 3·8 ins. fell during the 24th. In all the Scotch districts the fall was much less than the mean, and only equal to it in Ireland S.

Bright Sunshine was very deficient except in Scotland N. The percentage of the possible duration ranged from 38 in the district just named, 35 in the Channel Islands, and 32 in England S., to 13 in Scotland E., and to 11 in England N.E.

Barometer and Wind. During the earlier half of the period a shallow disturbance, with two or three very small minima, lay over our more southern counties and the adjacent portion of the Continent. The winds during this time were mainly from the Eastward in the north, but over the greater part of England they were very light and variable. By Thursday this distribution had become much modified, the barometer having risen decidedly over the United Kingdom, the shallow disturbance passed eastwards to Germany, and the wind became Southerly all along our western coasts. During the remainder of the week a depression lying out on the Atlantic caused some increase in the force of the Southerly wind on our north-western and western coasts, while some very small secondaries over England were accompanied by local thunderstorms and light variable airs.

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II.—DATA from which the SUMMARY on page 175 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.	*	*	*	*
O. SCOTLAND, N.	Sumburgh Head	62	46	55·4	48·0	51·4	− 1·6	66	0	0	0·00	− 0·58	*	*	*	*
	Stornoway	69	45	64·9	49·0	56·4	+ 2·0	101	0	0	0·00	− 0·72	58·2	+ 27·5	50	+ 24
	Wick	68	48	61·7	50·9	55·9	+ 0·8	97	0	1	0·03	− 0·54	*	*	*	*
	Lairg Ꞩ	76	48	69·0	50·0	58·8	+ 4·0	118	0	1	0·02	− 0·65	*	*	*	*
	Glencarron Ꞩ	72	42	69·0	50·1	58·9	+ 4·1	118	0	1	0·03	− 1·39	*	*	*	*
	Fort Augustus Ꞩ	73	41	65·3	50·8	57·6	+ 1·0	109	0	1	0·14	− 0·59	29·3	+ 8·5	26	+ 7
	Fort William Ꞩ	70	48	69·0	53·0	60·4	+ 3·6	129	0	2	0·18	− 1·05	44·4	+ 17·7	39	+ 16
1. SCOTLAND, E.	Nairn	76	43	68·6	49·3	58·3	+ 1·3	114	0	1	0·01	− 0·61	*	*	*	*
	Aberdeen	70	51	61·9	52·7	57·0	+ 0·1	105	0	0	0·00	− 0·65	17·0	− 19·5	15	− 17
	Braemar Ꞩ	69	43	64·2	47·8	55·4	+ 1·3	94	0	0	0·00	− 0·73	*	*	*	*
	Ochtertyre Ꞩ	—	—	—	—	—	—	—	—	2	0·05	− 0·71	*	*	*	*
	Leith	75	49	62·3	52·7	57·2	− 1·4	106	0	2	0·02	− 0·61	*	*	*	*
	Marchmont Ꞩ	69	48	60·4	50·4	55·1	− 1·6	92	0	3	0·28	− 0·49	6·0	− 31·4	5	− 28
2. ENGLAND, N.E.	Alnwick Castle	69	52	62·4	53·9	57·9	+ 0·7	111	0	5	0·30	− 0·36	*	*	*	*
	Durham	69	52	64·4	54·7	59·2	+ 0·3	120	0	5	1·01	+ 0·37	6·6	− 29·9	6	− 27
	Shields	68	52	62·1	54·3	57·9	− 0·1	111	0	4	0·38	− 0·22	*	*	*	*
	Scarborough Ṁ	70	51	64·7	54·3	59·1	− 0·1	120	0	7	0·84	+ 0·24	6·8	—	6	—
	Spurn Head	74	55	65·6	56·9	61·0	+ 1·2	133	0	5	2·29	+ 1·91	*	*	*	*
	Lincoln	74	51	69·0	57·4	62·8	+ 2·8	146	0	5	1·85	+ 1·32	*	*	*	*
	Fulbeck (Lincolnshire)	79	55	70·6	57·3	63·5	+ 3·4	151	0	5	1·81	+ 1·27	23·1	—	21	—
3. ENGLAND, E.	Hillington Ṁ	80	55	74·1	57·6	65·3	+ 4·5	163	0	6	3·17	+ 2·53	24·4	− 18·9	22	− 17
	Yarmouth	71	55	68·1	59·9	63·7	+ 3·3	152	0	5	1·15	+ 0·58	*	*	*	*
	Geldeston	80	51	74·5	56·6	64·9	+ 4·4	160	0	6	2·45	+ 1·92	31·5	− 14·7	29	− 14
	Cambridge	81	53	74·2	56·7	64·8	+ 3·1	160	0	5	2·67	+ 2·13	23·3	− 21·7	21	− 20
	Felixstowe	71	52	69·3	59·5	64·1	+ 3·3	155	0	4	0·80	—	43·5†	—	40†	—
	Clacton-on-Sea	72	54	69·9	59·7	64·4	+ 3·7	157	0	5	1·51	—	49·1†	—	46†	—
	Rothamsted	78	51	71·1	54·8	62·4	+ 2·0	143	0	6	2·45	+ 1·88	22·3	− 23·9	21	− 22
	Shoeburyness	79	56	73·0	58·3	65·1	+ 3·7	162	0	3	0·67	+ 0·27	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	71	52	64·9	55·4	59·8	+ 1·7	125	0	5	1·75	+ 1·12	7·1	—	6	—
	Bawtry (Hesley Hall)	77	51	68·3	57·6	62·6	+ 2·4	144	0	6	2·20	+ 1·64	*	*	*	*
	Nottingham	77	53	69·7	57·3	63·1	+ 2·3	148	0	6	2·21	+ 1·64	14·9	—	14	—
	Colly Weston (Stamford)	83	55	71·9	56·9	63·9	+ 2·7	153	0	6	2·25	+ 1·70	*	*	*	*
	Cheadle Ṁ	75	53	67·1	55·6	61·0	+ 3·0	133	0	5	2·12	+ 1·41	*	*	*	*
	Birmingham (Edgbaston)	75	54	68·3	56·9	62·2	+ 2·4	141	0	5	2·06	+ 1·46	11·4	—	10	—
	Shrewsbury	76	54	70·4	55·7	62·5	+ 2·9	144	0	3	1·68	—	*	*	*	*
	Hereford Ṁ	75	54	68·7	56·3	62·1	+ 1·6	141	0	5	2·16	+ 1·63	*	*	*	*
	Cirencester	77	50	69·3	53·1	60·6	+ 1·2	130	0	6	2·89	+ 2·23	16·2	− 27·3	15	− 25
	Oxford	77	56	69·9	57·6	63·3	+ 2·2	149	0	6	2·88	+ 2·34	14·2	− 30·0	13	− 28
5. ENGLAND, S.	London	83	54	75·4	58·1	66·2	+ 3·5	169	0	5	1·17	+ 0·65	26·7‡	− 14·5‡	25‡	− 13‡
	Wisley (Surrey)	78	50	72·6	56·0	63·7	+ 1·1	152	0	5	0·89	—	33·4	—	31	—
	Swarraton (Alresford) Ṁ	75	51	69·3	55·8	62·1	+ 2·6	141	0	5	1·30	+ 0·70	*	*	*	*
	Tunbridge Wells Ṁ	81	52	73·5	55·3	63·8	+ 2·7	153	0	5	0·63	—	44·0	—	41	—
	Dungeness	77	57	69·6	59·0	63·9	+ 2·2	153	0	3	0·66	+ 0·29	44·7	—	41	—
	Hastings (St. Leonards)	75	55	70·2	58·2	63·8	+ 2·6	153	0	3	0·73	+ 0·21	43·3	− 7·7	41	− 7
	Southampton	75	57	70·2	59·5	64·5	+ 2·3	158	0	6	1·03	+ 0·45	44·7	− 4·0	41	− 4
	Portland Bill	67	56	64·3	57·1	60·5	+ 0·4	130	0	6	2·15	—	*	*	*	*
	Shaftesbury Ṁ	72	54	66·5	55·7	60·7	+ 1·3	131	0	6	2·25	+ 1·60	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	71	49	67·9	53·0	59·9	+ 2·7	125	0	2	0·17	− 1·03	*	*	*	*
	Glasgow	70	51	62·8	53·8	58·0	+ 0·7	112	0	1	0·01	− 0·77	10·0	− 21·2	9	− 19
	Cally Ꞩ	71	48	66·0	51·9	58·5	+ 1·4	116	0	3	0·66	− 0·27	*	*	*	*
	Aspatria	70	50	66·4	53·3	59·4	+ 1·6	122	0	1	0·04	—	21·3	—	19	—
	Douglas (Isle of Man)	70	50	65·5	54·2	59·5	+ 2·2	123	0	5	0·82	+ 0·08	24·9	− 17·9	22	− 16
7. ENGLAND, N.W.	Newton Rigg	69	42	65·9	52·1	58·5	+ 1·1	116	0	1	0·07	—	14·6	—	13	—
	Stonyhurst	72	54	67·6	57·0	61·9	+ 3·6	139	0	2	0·04	− 0·98	14·2	− 23·6	13	− 22
	Blackpool Ṁ	72	54	68·7	56·8	62·3	+ 2·7	142	0	4	0·24	− 0·47	28·3	− 10·8	26	− 10
	Manchester (Prestwich)	76	53	69·5	57·0	62·8	+ 4·1	146	0	5	0·47	− 0·35	13·6	—	12	—
	Liverpool Obsy. (Bidston)	73	54	67·9	57·0	62·1	+ 2·1	141	0	4	0·86	+ 0·22	25·4	—	23	—
	Chester (Hawarden Bridge)	76	50	69·1	55·7	61·9	+ 1·8	139	0	4	0·74	—	*	*	*	*
	Llandudno Ṁ	70	56	66·7	57·0	61·5	+ 1·3	137	0	4	1·02	+ 0·45	28·7	− 10·8	26	− 10
	Holyhead	68	52	64·9	55·3	59·8	+ 0·9	125	0	3	0·37	− 0·20	*	*	*	*
	Bettws-y-Coed	72	53	68·0	54·7	60·9	+ 1·3	132	0	3	0·30	—	12·8	—	12	—
8. ENGLAND, S.W.	Pembroke	68	55	64·6	57·4	60·8	+ 1·9	132	0	6	0·50	− 0·08	35·6	− 9·7	33	− 9
	Clifton	75	55	68·6	57·6	62·7	+ 1·9	145	0	5	3·14	+ 2·44	*	*	*	*
	Bath	73	53	69·0	57·0	62·6	+ 0·9	144	0	6	1·92	+ 1·33	14·7	—	14	—
	Arlington (N. Devon)	69	50	65·7	55·3	60·1	+ 1·3	127	0	7	1·50	+ 0·47	*	*	*	*
	Cullompton Ṁ	71	48	67·6	55·9	61·3	+ 0·3	135	0	6	3·26	+ 2·61	8·6	− 33·2	8	− 31
	Falmouth	68	49	66·3	56·1	60·8	+ 0·5	132	0	6	2·01	+ 1·28	25·9	− 24·2	24	− 23
	Plymouth	68	49	65·3	56·7	60·7	− 0·5	131	0	7	4·37	+ 3·73	20·7	− 25·5	19	− 24
9. IRELAND, N.	Malin Head	70	50	63·1	53·0	57·7	+ 0·3	110	0	3	0·56	− 0·13	*	*	*	*
	Edenfel (Omagh)	71	53	68·7	54·7	61·2	+ 4·6	134	0	5	0·74	− 0·06	*	*	*	*
	Blacksod Point	67	48	64·4	55·1	59·4	+ 1·3	122	0	7	0·97	+ 0·17	*	*	*	*
	Markree Castle	70	54	67·0	56·1	61·2	+ 4·3	134	0	7	2·39	+ 1·54	25·3	− 3·3	23	− 3
	Armagh	69	50	67·5	54·6	60·6	+ 2·8	130	0	3	0·57	− 0·16	30·1	− 0·4	27	0
	Donaghadee	67	52	62·1	53·4	57·5	+ 0·1	109	0	5	0·29	− 0·38	*	*	*	*
10. IRELAND, S.	Dublin	75	54	68·7	56·6	62·2	+ 2·2	141	0	4	0·29	− 0·33	27·3	− 9·7	25	− 9
	Birr Castle	71	52	67·0	55·6	60·9	+ 2·3	132	0	5	0·39	− 0·34	26·5	− 4·7	24	− 4
	Kilkenny	73	48	67·3	55·1	60·8	+ 1·8	132	0	6	0·71	+ 0·07	*	*	*	*
	Waterford	73	49	67·6	55·1	60·9	+ 1·6	132	0	5	1·59	+ 0·80	*	*	*	*
	Roche's Point	68	51	65·4	54·7	59·7	0·0	124	0	5	0·43	− 0·31	*	*	*	*
	Valencia	67	47	65·0	52·9	58·5	− 0·4	116	0	3	0·72	− 0·25	40·2	+ 5·8	37	+ 5
	Killarney	75	49	69·4	53·4	60·8	+ 1·9	132	0	5	0·98	+ 0·11	*	*	*	*
	Foynes	70	48	67·7	53·9	60·3	+ 2·2	128	0	5	0·86	+ 0·09	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	70	57	66·3	58·7	62·2	+ 1·5	141	0	4	0·82	+ 0·28	43·7	− 6·4	41	− 6
	Jersey	73	54	69·0	58·0	63·1	+ 0·2	148	0	7	2·24	+ 1·70	34·2	− 21·1	32	− 20

Stations Marked Ṁ are in connection with the Royal Meteorological Society, and those marked Ꞩ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

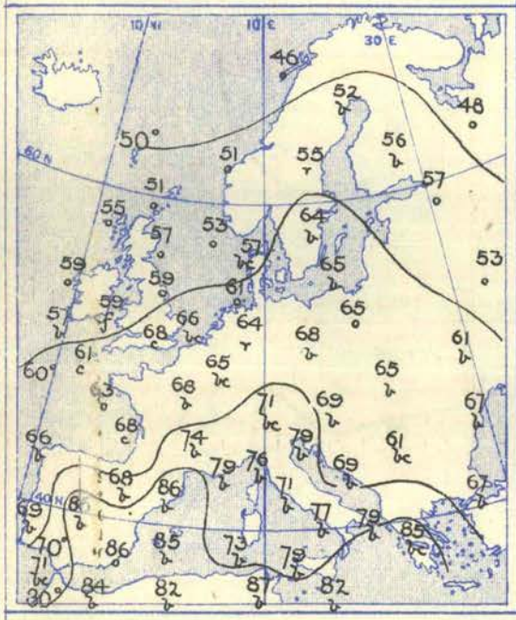
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

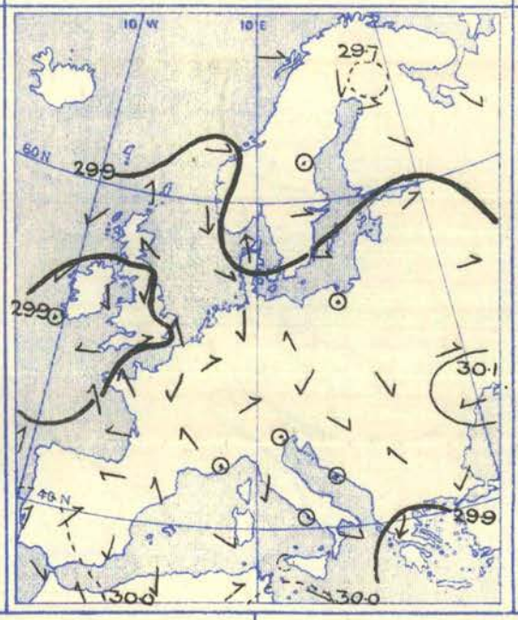
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 24th July, 1904.

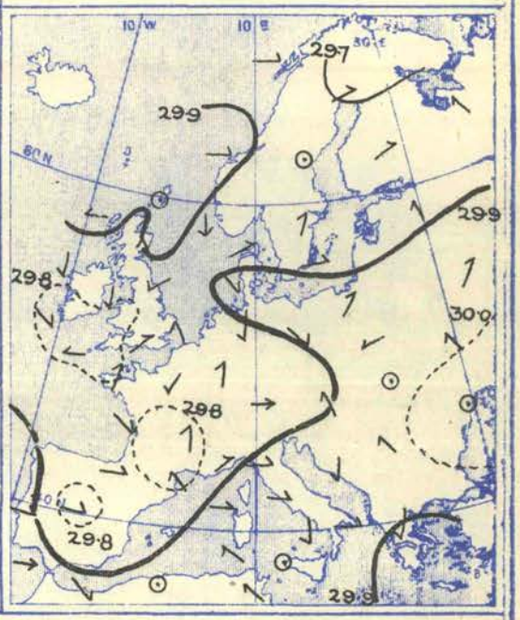
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Continent generally, and at a few of our own stations, but, as a rule, more cloudy than of late, with fog at Malin Head, Donaghadee, and Holyhead, and rain at Leith, Cuxhaven, and Hernösand. Rain later at many of the Irish and English stations, and a thunderstorm at Spurn Head. Thunderstorms also reported over France, the accompanying rainfall being heavy in some localities.

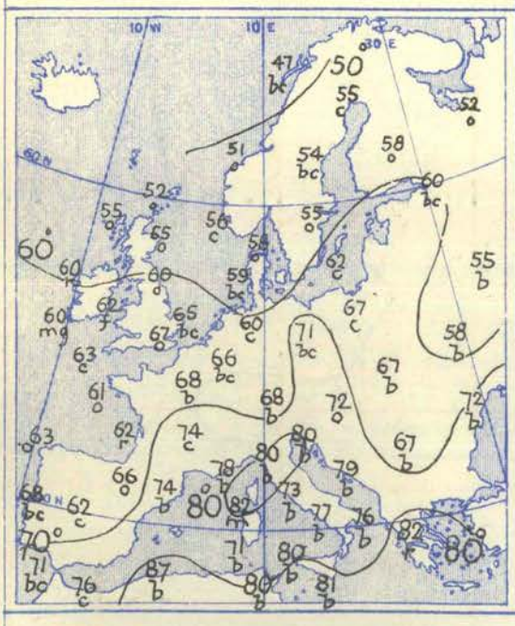
Temperature changed little and irregularly. Morning readings highest, 87° at La Calle, 86° at several of the Spanish stations, and 85° at Palma and Patras, above 70° over southern Europe generally, and 69° at Clacton-on-Sea. Lowest, 46° at Bodö, 48° at Archangel, and 51° at Christiansund and Sumburgh Head, below 60° at several of our own western and northern stations. Rising later to 81° at London and Margate, to 88° at Frankfurt and Paris, to 94° at Lyons, to 99° at Toulouse, and 102° at Sanguinaires, Tunis, and Aumale.

Wind strong from the Northward at Skudesnaes, light from North-West or West over northern Europe, but light and variable over our Islands and the Continent generally. No great change later.

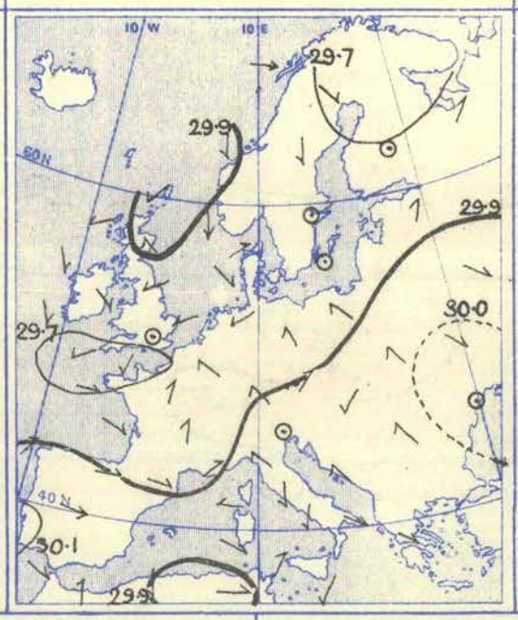
Barometer falling slowly in most places. Highest, 30·0 ins. to 30·1 ins. over Austria and southern Russia, and 30·0 ins. over the southern part of the Spanish Peninsula and Morocco. Lowest, 29·8 ins. and less in a shallow system over northern Europe, and 29·9 ins. and less in a depression covering Ireland, the greater part of England, and the north-west of France. Below 29·9 ins. in another disturbance over the Grecian Archipelago and the western part of Asia Minor. Barometer continuing to fall during day, and shallow disturbances appearing over central Spain and the south-west of France.

Monday, 25th July, 1904.

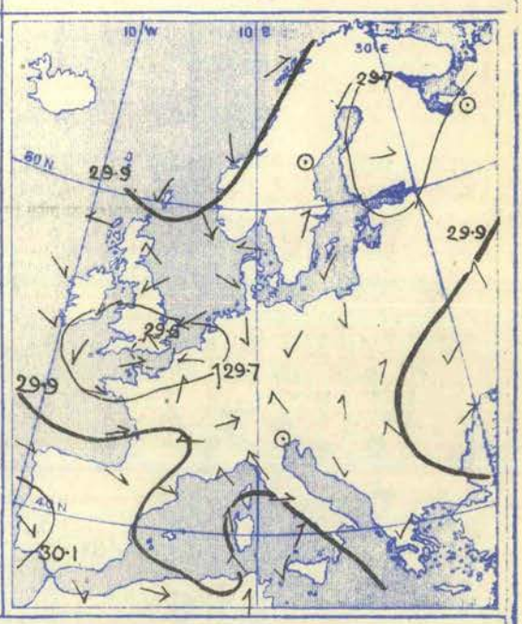
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over southern Europe, and at a few of our own stations, but cloudy or overcast in most other places, with rain at Blacksod Point, Rochefort, and Athens. Thunderstorms later over the greater part of England, as well as at many of the French stations, the accompanying rainfall amounting to 0·5 in. and upwards in several places, and to as much as 1·6 ins. at Westminster.

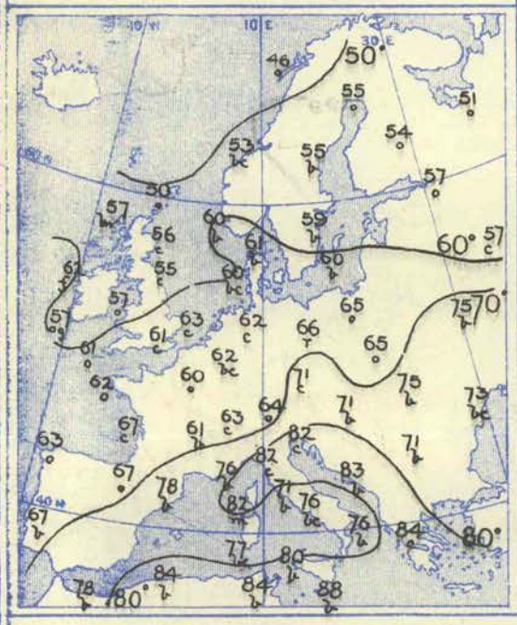
Temperature still changing very little. Morning readings ranging from above 80° at many southern stations, to 70° or above over central Europe and the south of Russia, to below 60° over Scotland and northern Europe, and to 47° at Bodö, 52° at Sumburgh Head, and 54° at Christiansund. Rising subsequently to 76° at Nottingham, to above 80° over central Europe and at several of the French stations, to 91° at Lyons, 94° at Palermo and Malta, 97° at Sanguinaires, 99° at Oran, and 101° at Algiers.

Wind light from the Westward or Southward over France, but light from between East and North at our own stations. Remaining light and variable over the Continent generally. No material change later.

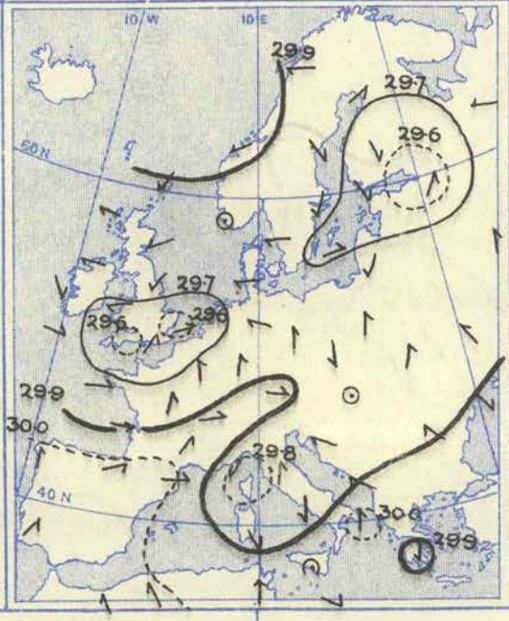
Barometer falling slowly in most places. Highest 30·1 ins. and upwards in an anticyclone off the coast of Portugal, 30·0 ins. and upwards over southern Russia, and 29·9 ins. and upwards over the northern portion of the North Sea and the west of Norway. Lowest, 29·7 ins. and less in two shallow systems lying respectively over northern Europe and the English Channel and southern counties of England. No great change later, but English disturbance beginning to move slowly to the Eastward.

Tuesday, 26th July, 1904.

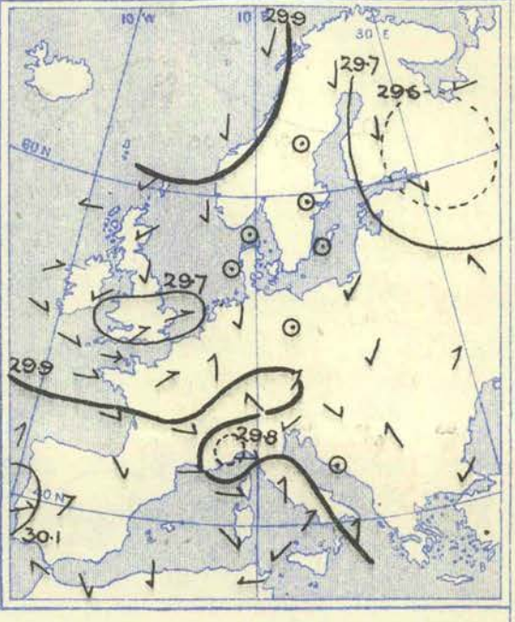
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine at most of the Continental stations, but generally cloudy or dull elsewhere, with fog at Blacksod Point, and rain at Jersey, Portland, Spurn Head, the Helder, Berlin, and at a few central French stations. Thunderstorms later over the south and south-east of England, with further heavy falls of rain—1 in. being recorded at Portland Bill, and 1·1 ins. at Oxford.

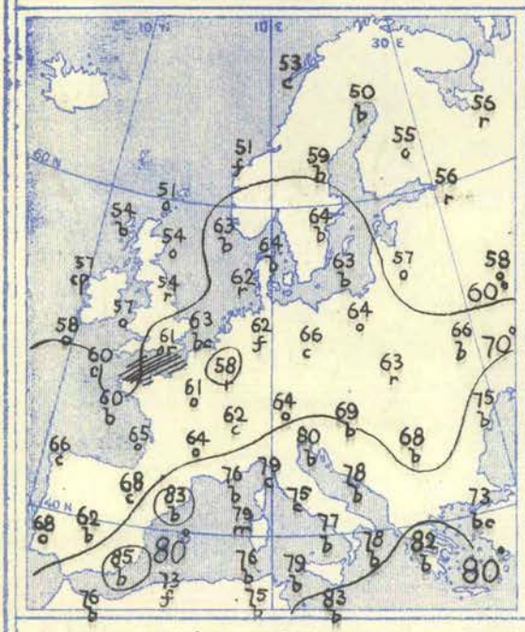
Temperature fallen a little in most places. Morning readings highest, 88° at Malta, 84° at Algiers, Tunis, and Athens, and 83° at Lesina, considerably above 70° over southern Europe, and above 60° over the south of England, France, and the central European stations. Lowest, 46° at Bodö, 50° at Sumburgh Head, 51° at Archangel, and 53° at Christiansund. Rising later to 74° in London, and 73° at Margate; exceeding 80° at many stations in France and central Europe, and touching 90° on the shores of the Mediterranean. The highest recorded being 97° at Brindisi, Cagliari, Sanguinaires, and Tunis.

Wind light from the Eastward or North-Eastward over northern Europe, Scandinavia, and the major part of our Islands, Westerly to Southerly over the southern parts of England and Ireland, mainly Westerly and variable over Europe generally, but slight anticyclonic circulation shown over the Gulf of Finland. No change of importance later.

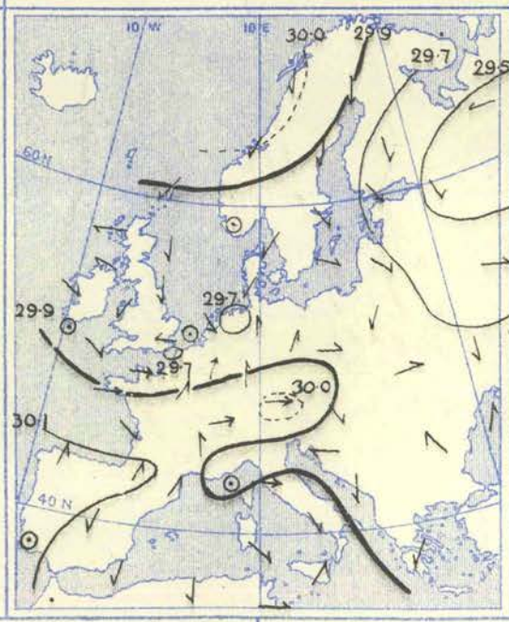
Barometer.—Highest, 30·0 ins. and upwards over Spain and Morocco, and slightly above 29·9 ins. off the west of Norway. Lowest, 29·6 ins. and less in a shallow disturbance over the Gulf of Finland, 29·7 ins. and less in a trough of low pressure lying over the greater part of England, the Channel, and Holland, and 29·8 ins. and less in a small system over the Riviera. No great change later.

Wednesday, 27th July, 1904.

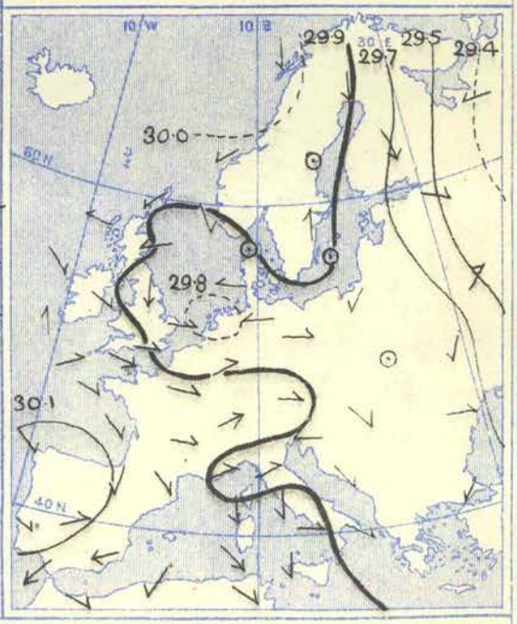
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright in Sweden, at a few of our northern and north-western stations, and over southern Europe generally, mostly dull elsewhere, with rain in several parts of England, and at Brussels, Fano, Archangel, and St. Petersburg, fog at Spurn Head, Cuxhaven, and Christiansund. Rain later over the southern parts of England, Germany, and the east of France, and thunderstorms in many parts of our eastern and south-eastern counties.

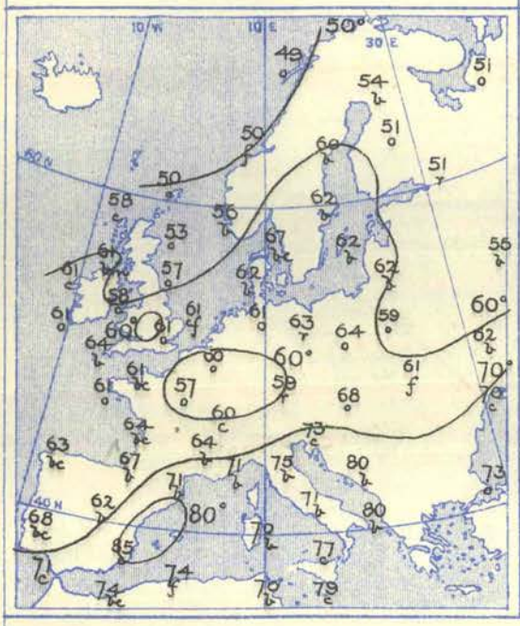
Temperature changed little and irregularly. Morning readings highest, 85° at Alicante, 83° at Malta and Barcelona, and 82° at Patras, above 70° at several Mediterranean stations, and above 60° over France, central Europe, and the south-east of England, below 60° in most parts of the United Kingdom, and in northern Europe. Lowest, 50° at Harparanda, 51° at Christiansund and Sumburgh Head, and 53° at Bodö. Rising subsequently to 70° at Brighton, to above 70° over France and Germany, to 80° or more over southern Europe generally, and rising to 91° at Rome, Cagliari, and Malta, 95° at Palermo, and 99° at Sanguinaires. Highest recorded, 102° at Aumale.

Wind North-Easterly and Northerly over Scandinavia, northern Russia and the greater part of Britain, North-Westerly to Westerly in Ireland, France and Germany, fresh to strong at some Channel stations, mainly Northerly and North-Westerly over the Mediterranean, calm and light variable breezes elsewhere.

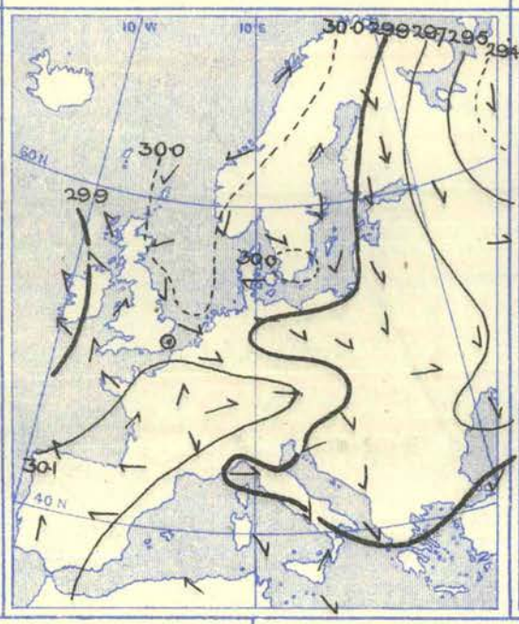
Barometer rising slowly in most places, falling over Russia. Morning readings highest, 30·1 ins. and upwards over the western part of the Spanish Peninsula and the southern portion of the Bay of Biscay, and 30·0 ins. and upwards off the north-west coast of Norway. Lowest, 29·5 ins. and less over north-western Russia, and 29·8 ins. and less in a disturbance, having two minima, lying over the east of England, Belgium, the Netherlands and north-western Germany. A shallow area of low pressure appearing off our western coasts later. No material change elsewhere.

Thursday, 28th July, 1904.

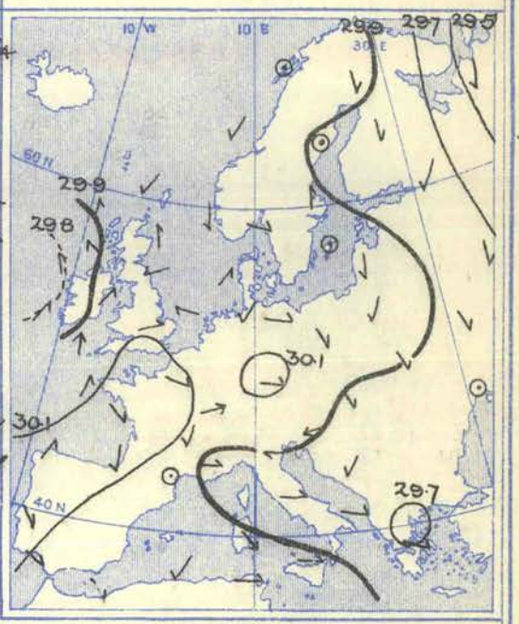
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy over our Islands generally, and also over northern Europe, with rain on the north-east coast of England, as well as at St. Petersburg, fine and bright at the majority of the Continental stations. Rain later over Ireland, England, the Netherlands and Germany, and a thunderstorm at Clacton-on-Sea, where 0·54 in. of rain was measured.

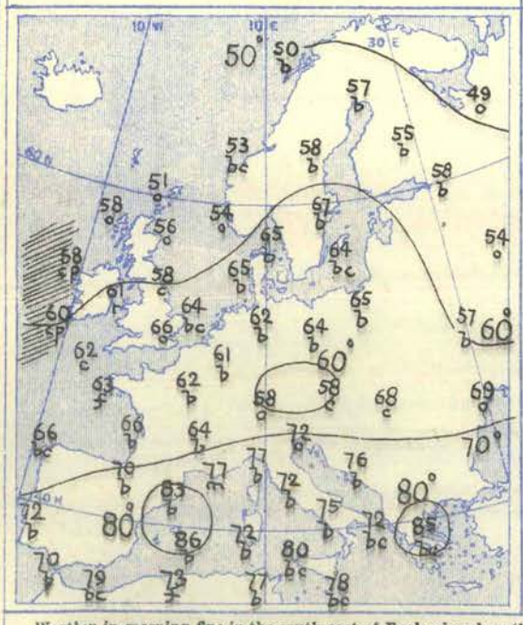
Temperature fallen a little in most places. Morning readings ranging from 85° at Alicante and to between 75° and 80° over southern Europe generally, to 60° or more over England, Ireland, and central Europe, to below 50° off the north-west coast of Norway. Maxima during day, above 70° in many parts of England, above 80° at several stations in France and central Europe, and above 90° over Algeria and southern Italy. Highest readings recorded, 99° at Sanguinaires and Aumale.

Wind varying greatly in direction, and light to moderate in force generally. Mainly Northerly to North-Easterly over northern Europe and Scotland, Southerly in Ireland, North-Westerly at most English stations, variable elsewhere. Scarcely any change later.

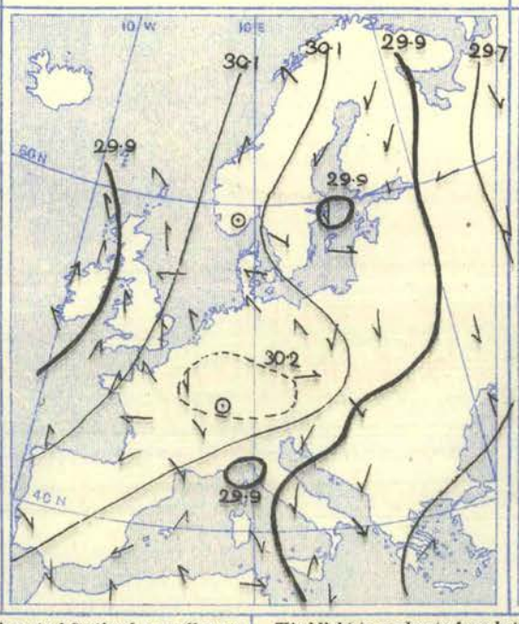
Barometer rising slowly in most places but falling over the west of Ireland. Highest at 8 a.m., 30·1 ins. and upwards in an anticyclone over the Bay of Biscay, France and Switzerland, and 30·0 ins. and upwards in another high pressure system extending from our north-east coasts to Norway. Lowest, 29·4 ins. and less over northern Russia, and 29·9 ins. and less in a disturbance lying off the west of Ireland. No material change later.

Friday, 29th July, 1904.

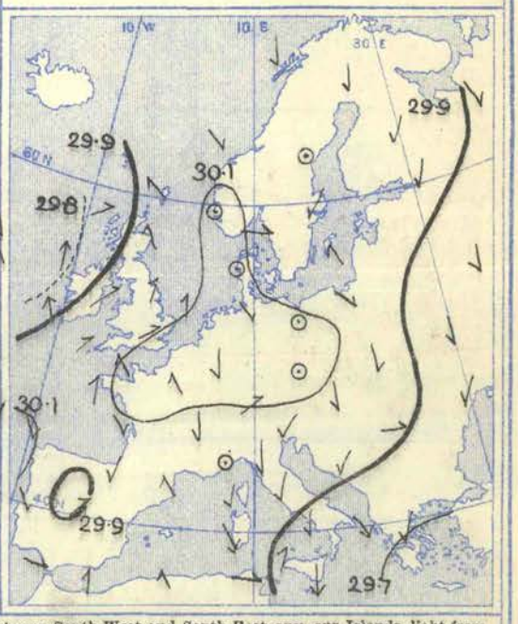
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the south-east of England and north-east of Scotland, as well as on the Continent generally, cloudy or overcast over our Islands, with rain in many places. Rain later over the greater part of the United Kingdom and also over Brittany—as much as 1·46 ins. measured at Brest. Thunder at Nairn and Plymouth, the accompanying rainfall at the latter station amounting to 1·4 ins.

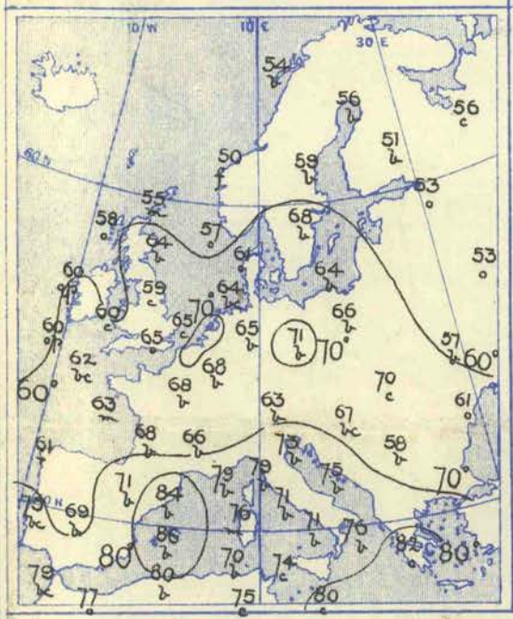
Temperature risen a little over our Islands, fallen slightly at many of the Continental stations. Morning readings highest, 87° at Alicante, 86° at Palma, 85° at Athens, and 83° at Patras, above 70° over southern Europe generally, and above 60° over the greater part of England, France, and the central Continental countries, below 60° in Scotland, as well as over Scandinavia, central and northern Russia. Rising during day to above 70° at many of the Irish and Scotch stations, exceeding 80° in France and central Europe, touching 90° at several places on the shores of the Mediterranean, and reaching 99° at Madrid and Sanguinaires.

Wind light to moderate from between South-West and South-East over our Islands, light from the Northward at most of the Continental stations. No change of importance later beyond a freshening of the Southerly wind in the west of Ireland.

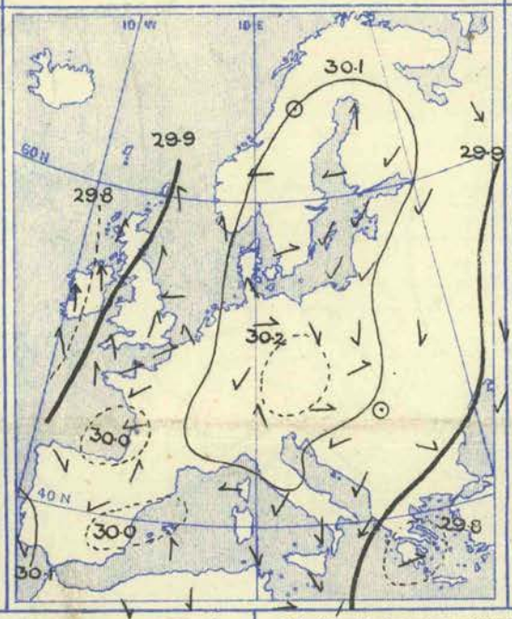
Barometer risen a little in most places. Highest, 30·2 ins. and upwards over eastern France and Bavaria. Lowest, 29·9 ins. and less off our western coasts, and also in two shallow disturbances lying respectively over Finland and the Riviera. Pressure beginning to decrease later over our Islands, and new shallow disturbances appearing over central Spain.

Saturday, 30th July, 1904.

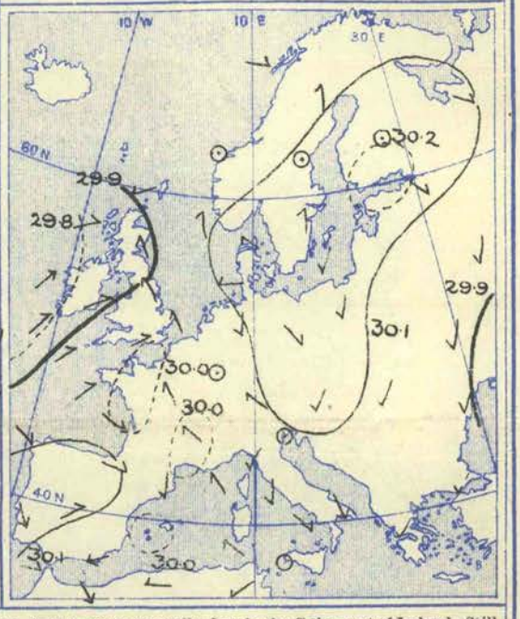
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning varying considerably over our Islands, cloudless in some localities, dull and overcast in others, with rain in several places; remaining fine and bright at the majority of the Continental stations. Rain later over Ireland, England, and at several of the French stations, and thunderstorms over the eastern counties of England, as well as in many parts of France, as much as 2·16 ins. of rain measured at Hillington during the afternoon, of which 1·56 ins. fell in thirty-five minutes.

Temperature risen a little in most places. Readings in morning highest, 86° at Palma, 84° at Barcelona, 82° at Patras, and 80° at Algiers and Malta, 70° and upwards at many stations over central and southern Europe, 72° at the Helder, above 60° over the greater part of our Islands, as well as in Denmark. Lowest, 50° at Christiansund, 51° at Kuopio, and 53° at Moscow and St. Petersburg. Rising subsequently to above 70° over several parts of England, and to 83° in London. Maxima on the Continent ranging from 97° at Toulouse and Madrid, and 93° at Lyons, to considerably above 80° in France and central Europe, and to 84° at Fanö.

Wind Southerly over our Islands, light in force generally, but fresh off the west of Ireland. Still light and variable on the Continent as a whole, but mainly Northerly over Russia and the Baltic. No change of importance later.

Barometer 30·2 ins. and upwards in the central area of an anticyclone stretching from northern Italy to Germany, Denmark, Scandinavia, and the Baltic Provinces. Lowest, 29·8 ins. and less off the western coasts of Ireland and Scotland, and also in a shallow system over southern Greece, and 30·0 ins. and less in small depression on the south-west coast of France. Central area of high pressure transferred later to neighbourhood of the Gulf of Finland, low pressure off the west of Ireland spreading slowly eastwards.

IV.—GENERAL NOTES, etc.

Until the period drew towards its close the general level of the barometer was low and the distribution of pressure complex and irregular. Shallow depressions were found in various localities and sometimes in rather close proximity to areas of relatively high pressure. The winds consequently varied very much in direction, while, with few exceptions, remaining light in force, and the weather was of a decidedly unstable character over Europe as a whole. Thunderstorms or showers were very common except in the most southern and northern regions where the weather appears to have been almost continuously fine and dry. Temperature differed little from the normal level for the time of year. In the southern and Mediterranean countries maxima of 90° and upwards were frequently recorded, while there were occasional readings of about 100°. By Friday the barometer was rising over central and northern Europe, and by the end of the week a large anticyclone, having its centre over Germany, extended southwards to Italy and northwards to the arctic circle. The weather in the regions immediately under the influence of this high pressure system became fine and bright, but continued unsettled and thundery over the United Kingdom.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 176.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	22·9	− 7·5	20	− 6
STRATHPEFFER SPA	48·4	+ 20·3	42	+ 18
CRATHES	26·9	—	24	—
EDINBURGH	9·3	− 23·2	8	− 21
COCKLE PARK	4·5	—	4	—
NEWCASTLE-ON-TYNE	5·1	—	5	—
YORK	10·2	− 27·4	9	− 25
SKEGNESS	23·3	—	21	—
CROMER	36·3	—	33	—
LOWESTOFT	45·1	—	41	—
DUNMOW	33·9	—	31	—
SHEFFIELD	9·6	—	9	—
WORKSOP	10·2	− 25·6	9	− 23
THURCASTON	28·9	− 10·4	27	− 10
MARGATE	38·2	− 6·2	35	− 6
BROADSTAIRS	—	—	—	—
RAMSGATE	42·6	—	39	—
EASTBOURNE	37·1	− 13·5	35	− 13
BRIGHTON	38·3	− 13·1	36	− 12
WORTHING	36·4	—	34	—
BOGNOR	39·4†	—	37†	—
WESTBOURNE	32·6†	− 16·9	31†	− 16
VENTNOR HOSPITAL	24·2	− 23·7	23	− 22
BOURNEMOUTH	23·9	—	22	—
MARLBOROUGH	18·2	− 23·4	17	− 22
SOUTHPORT	20·3	—	19	—
RHYL	—	—	—	—
ABERDOVEY	33·7†	—	31†	—
TENBY	35·4	− 10·1	33	− 9
TORQUAY	21·7	− 26·9	20	− 25
NEWQUAY	27·6	− 20·1	26	− 19
GUERNSEY	32·3†	− 24·1	31†	− 22

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values below must be substituted for those which have already appeared.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees) Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Twenty-seventh Year, No. 11, p. 68	Hereford	—	—	49·2	—	42·9	+ 0.1	28	—	—	—	—	—	—	—	—
" " " "	Wisley	—	—	—	—	—	—	—	—	—	0·18	—	—	—	—	—
" " " "	Llandudno	—	—	—	38·9	—	—	—	—	—	—	—	—	—	—	—
" " " No. 13, p. 74.	Hillington	—	—	—	32·9	41·2	− 2·1	—	—	—	—	—	—	—	—	—
" " " " 7	Geldeston	—	—	—	34·0	—	—	—	22	—	—	—	—	—	—	—
" " " " 29, p. 140.	Valencia	—	—	—	—	—	—	—	—	—	1·42	+0·51	—	—	—	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* } No. 31. THIRTY-FIRST WEEK, ENDING SATURDAY, AUGUST 6TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 182.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	76	45	65·2	52·4	58·4	4 above	115	+26	0	0	1199	+ 16	477	- 72
	1. SCOTLAND, EAST	78	43	69·1	53·0	60·6	4 above	130	+27	0	0	1332	-104	585	- 7
	2. ENGLAND, N.E.	88	48	73·8	56·4	64·6	6 above	158	+43	0	0	1635	+106	431	- 59
	3. ENGLAND, EAST	88	50	75·3	59·3	66·9	6 above	174	+47	0	0	1842	+ 41	404	-131
	4. MIDLAND COUNTIES	88	45	74·7	55·1	64·3	5 above	156	+33	0	0	1745	- 63	474	- 73
	5. ENGLAND, SOUTH	91	46	74·6	57·7	65·6	5 above	165	+29	0	0	1885	- 75	345	- 52
Principal Grazing Districts.	6. SCOTLAND, WEST	76	49	66·6	55·5	60·7	4 above	131	+25	0	0	1467	- 56	375	- 42
	7. ENGLAND, N.W.	83	48	71·2	55·7	62·9	4 above	146	+29	0	0	1600	- 52	386	- 13
	8. ENGLAND, S.W.	83	49	70·3	56·4	62·9	3 above	146	+22	0	0	1848	+ 5	252	- 53
	9. IRELAND, NORTH	71	50	65·0	54·1	59·2	2 above	120	+12	0	0	1490	-137	337	- 20
	10. IRELAND SOUTH	78	45	66·9	55·3	60·7	2 above	131	+13	0	0	1778	- 88	232	- 24
	— CHANNEL ISLANDS	85	53	70·0	58·9	64·1	3 above	155	+18	0	0	2110	+ 27	80	- 41

Rainfall.

	DISTRICTS. (See p. 182.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	13	5 more	140	+10	29·3	+ 3·4
	1. SCOTLAND, EAST	5	11	4 more	121	+ 9	16·3	- 0·5
	2. ENGLAND, N.E.	2	2	4 less	104	+ 1	12·3	- 1·1
	3. ENGLAND, EAST	1	less than half	5 less	99	- 5	12·2	- 0·8
	4. MIDLAND COUNTIES	3	3	3 less	111	+12	15·2	+ 0·2
	5. ENGLAND, SOUTH	2	3	2 less	111	+14	15·8	+ 1·1
Principal Grazing Districts.	6. SCOTLAND, WEST	5	15	6 more	127	+12	28·9	+ 2·7
	7. ENGLAND, N.W.	4	5	3 less	120	+13	17·6	0·0
	8. ENGLAND, S.W.	4	4	4 less	122	+13	23·1	+ 3·4
	9. IRELAND, NORTH	6	20	12 more	14	+17	22·9	+ 3·7
	10. IRELAND, SOUTH	6	14	6 more	138	+19	24·8	+ 3·0
	— CHANNEL ISLANDS	3	5	0 (average)	135	+23	21·0	+ 4·6

Bright Sunshine.

	DISTRICTS. (See p. 182.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	27	0	24	0	809	+ 11	28	0
	1. SCOTLAND, EAST	34	+ 1	31	+ 1	819	- 84	28	- 3
	2. ENGLAND, N.E.	58	+13	54	+12	917	- 77	32	- 3
	3. ENGLAND, EAST	67	+23	63	+21	1073	- 24	38	- 1
	4. MIDLAND COUNTIES	63	+24	59	+23	905	- 13	32	- 1
	5. ENGLAND, SOUTH	66	+21	62	+19	1064*	- 4	37	0
Principal Grazing Districts.	6. SCOTLAND, WEST	38	- 5	35	- 4	859	- 95	30	- 3
	7. ENGLAND, N.W.	54	+18	50	+17	942	+ 32	33	+ 1
	8. ENGLAND, S.W.	62	+14	59	+14	1007	-108	35	- 4
	9. IRELAND, NORTH	25	- 5	23	- 4	818	- 56	28	- 2
	10. IRELAND, SOUTH	32	- 2	30	- 2	902	- 79	32	- 3
	— CHANNEL ISLANDS	63	+ 9	61	+ 9	1201	- 73	42	- 3

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this period varied a great deal in different parts of the Kingdom. In Ireland and Scotland rain fell almost daily, and there were also several days with rain in Wales and all the western counties of England, but over the greater part of the latter country the weather was mostly fine. At the end of the week strong squalls and rain were general except in the extreme south-east. Thunderstorms were experienced early in the week at some stations in the west and north, and on Thursday they were general throughout Great Britain. During the afternoon of this day severe dust storms were reported at Lincoln and Colly Weston.

Temperature exceeded the mean in all districts, the excess in eastern, central, and southern England being as much as 5° or 6°. The highest of the maxima were recorded on August 4th at most stations in the east and south-east, but a day or two earlier further west and north-west. In England S. the thermometer rose to 91° in London, and to 90° at Margate; elsewhere the highest readings ranged from 88° in England N.E., E., and the Midland Counties, to 76° in Scotland N. and W., and to 71° in Ireland N. The lowest of the minima, which were registered during the earlier half of the week, varied from 43° in Scotland E. to 50° in England E. and Ireland N., and to 53° in the Channel Islands.

Rainfall was much in excess over Ireland and Scotland, especially in Ireland N.; in the Channel Islands the mean was just equalled, and in all the English districts there was a deficit.

Bright Sunshine was much above the mean in England, but rather below it in Ireland and most of the Scotch districts. The percentage of the possible amount ranged from 63 in England E., 62 in England S., and 61 in the Channel Islands, to 23 in Ireland N.

Barometer and Wind. During the greater part of the week depressions on the Atlantic affected our western and northern districts, while all the southern and eastern counties were under the influence of the Continental anticyclone. By Thursday, however, some secondary systems advanced directly over the Kingdom, and by the end of the week a depression—well-defined and deep for the time of year—passed Eastwards over our northern districts to the North Sea. This disturbance caused the wind, which had hitherto been light and mainly between South and West, to increase to a fresh or strong gale over the western and north-western parts of the Kingdom, and to a fresh or strong gusty breeze elsewhere.

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II.—DATA from which the SUMMARY on page 181 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	65	50	62·1	52·0	56·8	+ 3·9	104	0	3	0·81	+ 0·16	*	*	*	*
	Stornoway	65	46	63·3	52·0	57·3	+ 3·0	107	0	7	0·54	− 0·22	19·8	− 10·8	18	− 10
	Wick	70	48	67·0	53·4	59·8	+ 5·0	125	0	7	0·94	+ 0·37	*	*	*	*
	Lairg 𝔖	76	45	70·0	51·1	60·0	+ 5·5	126	0	7	0·75	+ 0·11	*	*	*	*
	Glencarron 𝔖	74	45	64·8	51·4	57·7	+ 3·1	110	0	6	2·60	+ 1·16	*	*	*	*
	Fort Augustus 𝔖	75	45	66·0	52·2	58·7	+ 2·2	117	0	6	1·25	+ 0·54	23·8	+ 3·1	21	+ 3
	Fort William 𝔖	68	50	63·5	54·4	58·7	+ 1·8	117	0	6	2·26	+ 1·01	13·2	− 12·3	12	− 11
1. SCOTLAND, E.	Nairn	78	45	72·4	51·3	61·2	+ 4·5	134	0	7	1·48	+ 0·88	*	*	*	*
	Aberdeen	71	49	67·0	53·3	59·7	+ 3·3	124	0	5	0·59	− 0·06	31·8	− 3·9	29	− 4
	Braemar 𝔖	72	43	64·1	50·6	57·0	+ 3·1	105	0	5	1·22	+ 0·47	*	*	*	*
	Ochtertyre 𝔖	78	49	69·4	53·7	61·1	+ 3·6	134	0	7	1·19	+ 0·39	*	*	*	*
	Leith	78	54	73·1	56·9	64·5	+ 6·3	158	0	4	1·38	+ 0·79	*	*	*	*
	Marchmont 𝔖	76	48	68·6	51·9	59·8	+ 3·6	125	0	4	0·81	+ 0·04	41·0	+ 4·6	37	+ 4
2. ENGLAND, N.E.	Alnwick Castle	79	50	74·0	53·9	63·4	+ 6·4	150	0	4	0·24	− 0·43	*	*	*	*
	Durham	78	48	71·0	54·0	62·0	+ 3·5	140	0	3	0·34	− 0·30	49·9	+ 14·9	46	+ 14
	Shields	79	51	73·0	56·0	64·0	+ 6·5	154	0	3	0·16	− 0·46	*	*	*	*
	Scarborough 𝔐	79	56	73·6	58·0	65·8	+ 6·7	163	0	1	0·12	− 0·50	61·9	—	57	—
	Spurn Head	77	57	73·9	59·3	66·2	+ 6·8	169	0	0	0·00	− 0·40	*	*	*	*
	Lincoln	88	55	73·5	56·9	64·7	+ 4·6	159	0	3	0·16	− 0·38	*	*	*	*
	Fulbeck (Lincolnshire)	88	54	77·6	56·9	66·6	+ 7·0	172	0	2	0·03	− 0·51	69·1	—	65	—
3. ENGLAND, E.	Hillington 𝔐	88	53	78·9	57·0	67·3	+ 7·2	177	0	0	0·00	− 0·63	65·4	+ 23·3	61	+ 22
	Yarmouth	76	58	71·6	62·1	66·6	+ 6·4	172	0	1	0·02	− 0·51	*	*	*	*
	Geldeston	85	55	77·2	58·5	67·3	+ 7·2	177	0	1	0·02	− 0·46	65·0	+ 19·9	61	+ 19
	Cambridge	87	54	77·7	57·7	67·1	+ 5·9	176	0	0	0·00	− 0·54	67·1	+ 23·4	63	+ 22
	Felixstowe	76	56	72·1	60·3	65·9	+ 5·4	167	0	0	0·00	—	66·4†	—	63†	—
	Clacton-on-Sea	77	57	73·0	62·0	67·2	+ 6·9	176	0	0	0·00	—	66·9†	—	63†	—
	Rothamsted	86	50	76·1	55·1	65·0	+ 5·3	161	0	1	0·05	− 0·51	68·8	+ 24·2	65	+ 23
	Shoeburyness	87	59	76·1	61·7	68·5	+ 7·2	186	0	1	0·01	− 0·39	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	79	51	72·4	54·9	63·1	+ 5·3	148	0	4	0·47	− 0·13	54·5	—	51	—
	Bawtry (Hesley Hall)	85	—	78·7	—	—	—	—	—	3	0·35	− 0·18	*	*	*	*
	Nottingham	84	52	76·3	56·0	65·5	+ 5·0	165	0	3	0·31	− 0·25	64·6	—	60	—
	Colly Weston (Stamford)	88	53	79·0	55·3	66·4	+ 5·5	171	0	2	0·02	− 0·53	*	*	*	*
	Cheadle 𝔐	81	51	73·0	54·4	63·1	+ 5·4	148	0	2	0·28	− 0·47	*	*	*	*
	Birmingham (Edgbaston)	82	52	73·5	55·5	64·0	+ 4·6	154	0	2	0·44	− 0·17	63·2	—	59	—
	Shrewsbury	81	48	74·5	53·6	63·4	+ 3·8	150	0	2	0·55	—	*	*	*	*
	Hereford 𝔐	81	50	73·8	54·9	63·8	+ 3·6	153	0	3	0·24	− 0·30	*	*	*	*
	Cirencester	82	45	73·7	54·3	63·4	+ 4·5	150	0	4	0·33	− 0·34	64·1	+ 21·5	61	+ 20
	Oxford	84	52	76·3	56·7	65·9	+ 5·1	167	0	1	0·15	− 0·39	64·5	+ 21·5	61	+ 20
5. ENGLAND, S.	London	91	54	81·1	58·1	68·9	+ 6·6	188	0	1	0·17	− 0·35	63·5‡	+ 23·3‡	60‡	+ 22‡
	Wisley (Surrey)	87	50	77·4	56·4	66·3	+ 4·0	170	0	2	0·27	—	66·7	—	63	—
	Swarraton (Alresford) 𝔐	83	46	75·3	54·8	64·4	+ 5·4	157	0	3	0·56	− 0·03	*	*	*	*
	Tunbridge Wells 𝔐	88	54	77·4	56·9	66·5	+ 5·5	172	0	1	0·01	—	68·8	—	65	—
	Dungeness	82	56	71·3	60·4	65·5	+ 4·0	165	0	3	0·14	− 0·23	63·5	—	61	—
	Hastings (St. Leonards)	81	56	73·7	60·2	66·6	+ 5·4	172	0	4	0·13	− 0·39	65·2	+ 15·5	62	+ 15
	Southampton	83	53	76·5	57·7	66·5	+ 4·4	172	0	2	0·57	− 0·01	70·3	+ 22·3	67	+ 21
	Portland Bill	70	56	67·3	58·0	62·4	+ 2·0	143	0	3	0·74	—	*	*	*	*
	Shaftesbury 𝔐	79	53	71·3	56·5	63·5	+ 4·1	151	0	1	0·28	− 0·36	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	68	51	65·1	54·9	59·7	+ 2·6	124	0	7	1·92	+ 0·71	*	*	*	*
	Glasgow	72	54	66·6	56·6	61·3	+ 4·4	135	0	5	1·34	+ 0·50	25·4	− 4·8	23	− 4
	Cally 𝔖	74	49	68·0	54·3	60·7	+ 3·7	131	0	4	2·04	+ 1·07	*	*	*	*
	Aspatria	76	54	69·0	56·0	62·1	+ 4·4	141	0	4	0·91	—	52·1	—	48	—
	Douglas (Isle of Man)	69	53	64·5	55·5	59·7	+ 2·6	124	0	5	1·49	+ 0·72	37·1	− 4·2	34	− 4
7. ENGLAND, N.W.	Newton Rigg	74	49	68·2	53·7	60·5	+ 3·7	130	0	6	0·46	—	53·5	—	49	—
	Stonyhurst	78	51	70·0	55·9	62·5	+ 4·4	144	0	5	0·68	− 0·38	51·8	+ 15·8	48	+ 15
	Blackpool 𝔐	79	50	72·0	55·1	63·0	+ 3·7	147	0	4	0·25	− 0·49	57·0	+ 19·6	53	+ 18
	Manchester (Prestwich)	82	48	73·6	54·8	63·6	+ 5·2	151	0	3	0·61	− 0·22	51·0	—	47	—
	Liverpool Obsy. (Bidston)	82	54	73·4	57·1	64·8	+ 5·1	160	0	4	0·29	− 0·36	56·0	—	52	—
	Chester (Hawarden Bridge)	83	51	73·7	56·2	64·4	+ 4·4	157	0	4	0·89	—	*	*	*	*
	Llandudno 𝔐	78	54	71·7	57·5	64·2	+ 4·1	155	0	2	0·22	− 0·38	56·1	+ 17·6	52	+ 16
	Holyhead	72	55	66·9	56·6	61·4	+ 2·5	136	0	4	0·66	+ 0·04	*	*	*	*
	Bettws-y-Coed	81	52	71·2	54·0	62·1	+ 2·5	141	0	4	0·41	—	55·0	—	51	—
8. ENGLAND, S.W.	Pembroke	67	56	64·0	58·3	61·0	+ 2·0	133	0	4	0·34	0·28	56·5	+ 11·6	53	+ 11
	Clifton	83	55	74·1	57·7	65·4	+ 4·7	164	0	4	0·47	− 0·27	*	*	*	*
	Bath	82	50	73·7	54·6	63·6	+ 2·5	151	0	4	0·56	− 0·05	69·4	—	66	—
	Arlington (N. Devon)	76	53	70·1	54·9	62·0	+ 3·5	140	0	5	0·69	− 0·36	*	*	*	*
	Cullompton 𝔐	82	49	73·5	54·2	63·3	+ 2·8	149	0	3	0·16	− 0·49	57·7	+ 15·6	55	+ 15
	Falmouth	72	55	67·8	56·8	62·0	+ 1·9	140	0	3	0·19	− 0·56	63·6	+ 14·3	61	+ 14
	Plymouth	74	54	69·0	58·0	63·2	+ 2·2	148	0	2	0·15	− 0·50	65·2	+ 19·7	62	+ 19
9. IRELAND, N.	Malin Head	66	52	64·4	53·1	58·4	+ 0·9	115	0	6	2·57	+ 1·87	*	*	*	*
	Edenfel (Omagh)	69	51	64·9	53·4	58·8	+ 2·0	118	0	7	1·54	+ 0·70	*	*	*	*
	Blacksod Point	65	52	63·0	54·4	58·4	+ 0·5	115	0	7	1·52	+ 0·58	*	*	*	*
	Markree Castle	71	50	65·6	53·6	59·2	+ 2·3	120	0	7	3·15	+ 2·27	23·8	− 5·9	22	− 6
	Armagh	69	52	66·6	55·0	60·5	+ 2·8	130	0	6	1·98	+ 1·25	26·0	− 3·7	24	− 3
	Donaghadee	68	52	65·7	54·9	60·0	+ 2·7	126	0	5	0·96	+ 0·25	*	*	*	*
10. IRELAND, S.	Dublin	78	55	70·4	57·6	63·6	+ 4·1	151	0	3	0·30	− 0·35	42·9	+ 5·7	40	+ 5
	Birr Castle	72	52	67·1	54·6	60·5	+ 2·0	130	0	5	1·07	+ 0·28	24·1	− 7·6	23	− 7
	Kilkenny	70	48	66·4	54·4	60·0	+ 1·1	126	0	6	0·96	+ 0·26	*	*	*	*
	Waterford	71	54	66·6	56·3	61·1	+ 2·1	134	0	5	0·91	+ 0·03	*	*	*	*
	Roche's Point	66	53	64·4	55·9	59·9	+ 0·4	125	0	7	1·40	+ 0·61	*	*	*	*
	Valencia	65	52	62·9	54·7	58·6	− 0·4	116	0	7	3·07	+ 2·03	29·2	− 5·5	28	− 5
	Killarney	71	51	68·5	55·0	61·4	+ 2·3	136	0	7	2·13	+ 1·17	*	*	*	*
	Foynes	70	45	68·5	53·6	60·6	+ 2·4	130	0	5	1·37	+ 0·53	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	69	58	67·0	58·7	62·6	+ 2·0	144	0	3	0·20	− 0·34	57·6	+ 6·3	55	+ 6
	Jersey	85	53	73·0	59·1	65·6	+ 2·9	165	0	3	0·82	+ 0·28	63·9	+ 8·4	61	+ 8

Stations Marked 𝔐 are in connection with the Royal Meteorological Society, and those marked 𝔖 with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

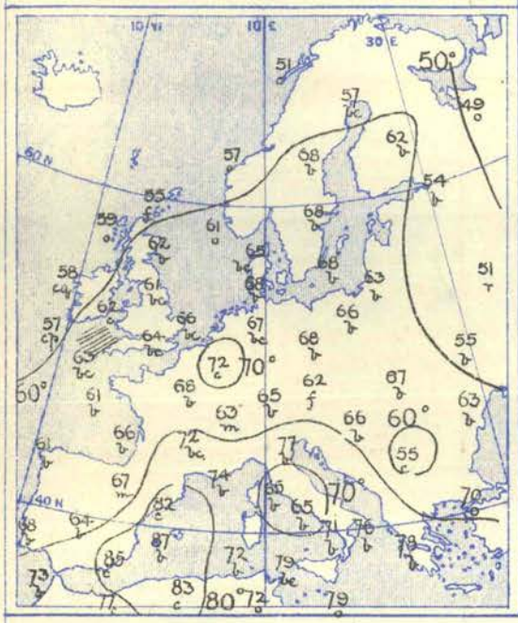
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

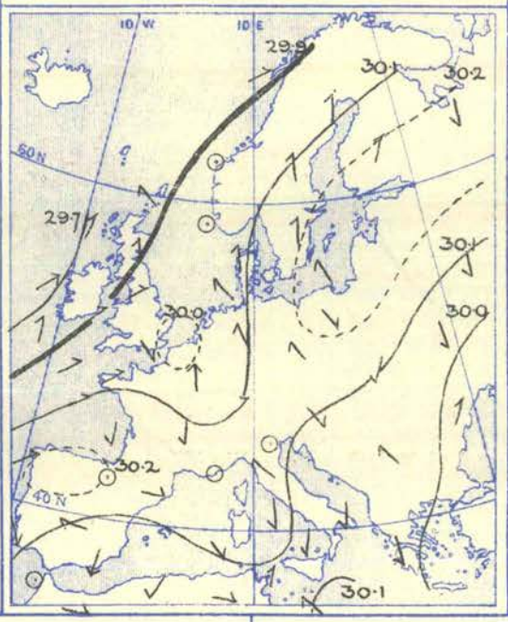
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 31st July, 1904.

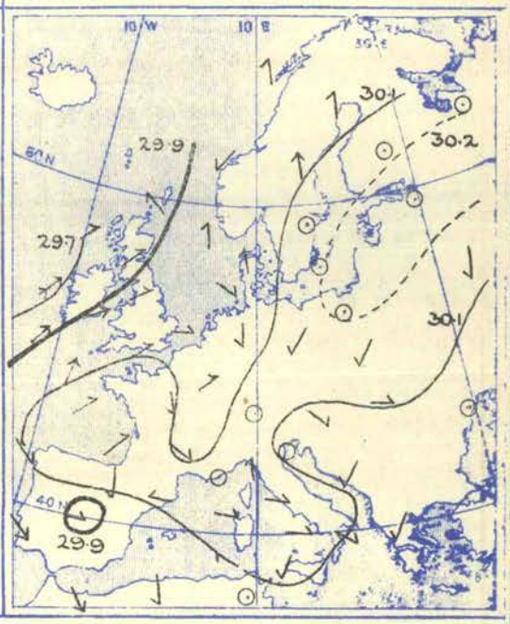
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast on the Norwegian coast and in most parts of our Islands. Very fine over Europe as a whole, but locally dull at some stations in France and the Netherlands. Some rain experienced later in the north and west of our Islands, accompanied by thunder in places, and thunderstorms occurring in several parts of France and at Lésina.

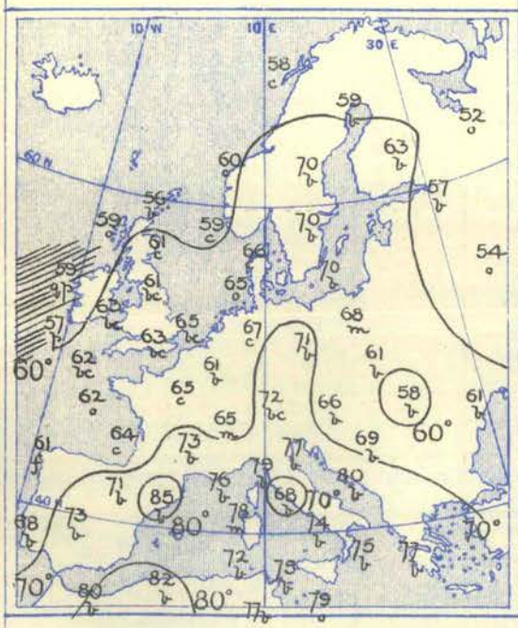
Temperature showing no decided change. Morning readings ranging from about 50° in the extreme north of Europe and at Moscow, to 68° at Stockholm, the Helder, Paris, and Berlin, and to above 75° at most southern stations. Highest values, 85° at Alicante and 87° at Palma. Maxima during day above 75° in many parts of England, above 80° in central and southern Europe, and 90° or above in places. Highest values, 93° at Cagliari and 97° at Madrid.

Wind fresh or strong from South-South-West at some of our own western stations, and light or moderate from a similar point over our Islands generally. Light and anticyclonic over the major portion of the Continent, but a small cyclonic circulation shown over the Netherlands. Wind increasing to a slight gale at Blacksod Point during day, but little change occurring elsewhere.

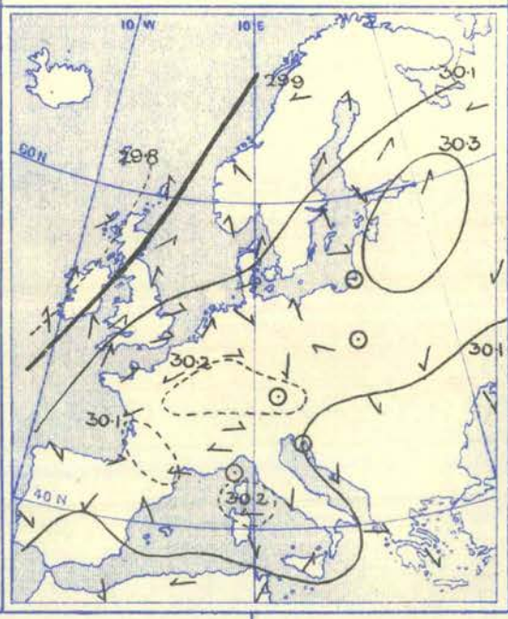
Barometer at 8 a.m. ranging from above 30·2 ins. in an anticyclone extending from Prussia to the north of Russia, and in a smaller system over the north of Spain, to less than 30·0 ins. in a shallow depression over the Netherlands and our south-east coasts, and to below 29·7 ins. in a larger disturbance off our north-west coasts. A well-defined depression forming over central Spain by evening, but little change taking place in the general distribution.

Monday, 1st August, 1904.

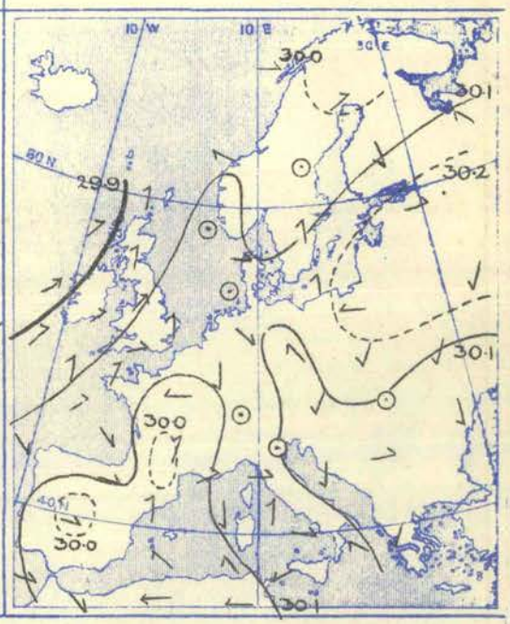
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. very fine over our area as a whole, but cloudy or overcast on our most western and northern coasts, with showers in a few places. Thunderstorms and heavy rain experienced later at some French stations—1·1 ins. at Clermont and 1·8 ins. at Cette—and slight rain in the north and west of our Islands and in Norway.

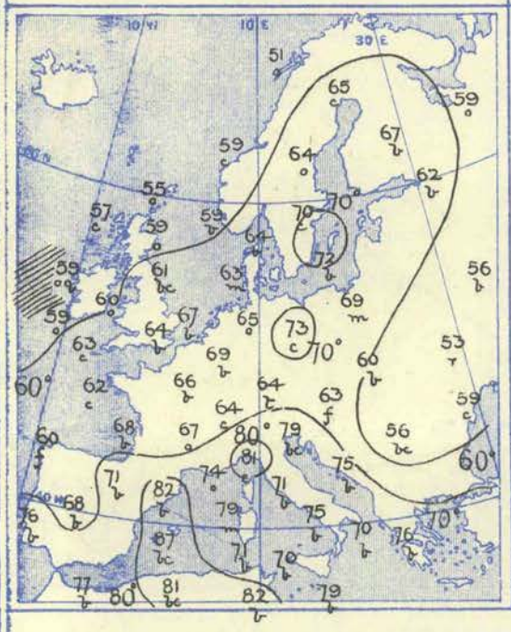
Temperature risen slightly in many regions, and fallen a little in a few districts. Morning readings ranging from 85° at Barcelona, above 80° in Algeria, and above 75° in most southern localities, to 70° in Sweden, 64° at Leith, 61° at Brussels and Warsaw, 54° at Moscow, and 52° at Archangel. Rising subsequently to 100° at Aumale, 97° at Madrid, 91° at Rome and Clermont, and to above 80° over southern and central Europe generally, and also at Stockholm. Highest reading in the United Kingdom, 79° in London.

Wind at 8 a.m. light and anticyclonic in nearly all parts of the Continent; light to fresh or strong from South or South-West over our own western and northern districts. No important change occurring during day.

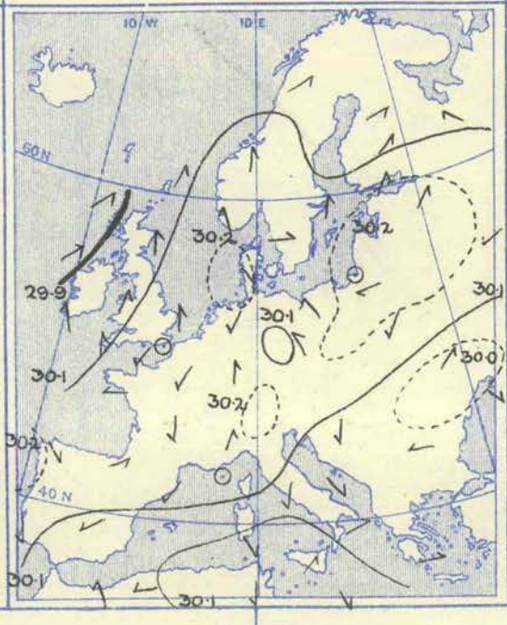
Barometer in morning ranging from above 30·1 ins. to 30·3 ins. in a very large anticyclone having its centre over the Baltic Provinces of Russia, to less than 29·3 ins. in a depression off the north-west coasts of the United Kingdom. No general change occurring later, but barometer rising on our north-west coasts, and shallow depressions forming over central Spain and the southern and central departments of France.

Tuesday, 2nd August, 1904.

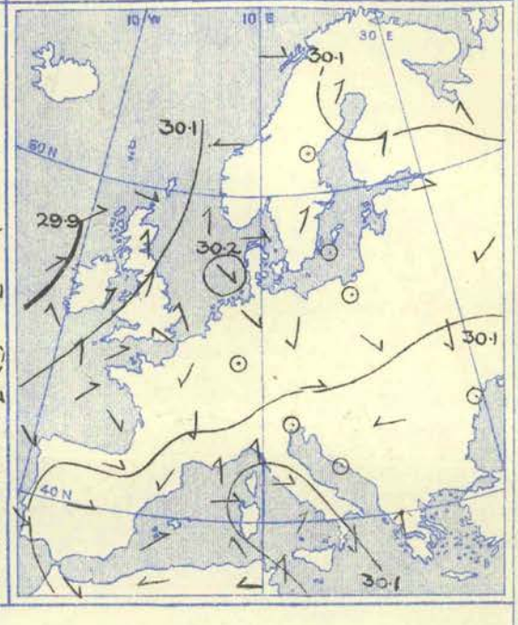
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. very fine generally, but cloudy or overcast at some stations in Scandinavia, Denmark, North Germany, and in our own northern and western districts. Showers falling at Malin Head, and thunder reported at Munich. More than an inch of rain falling later at Trieste, and slight amounts on our western and northern coasts, at Munich, and at a few stations in the far north.

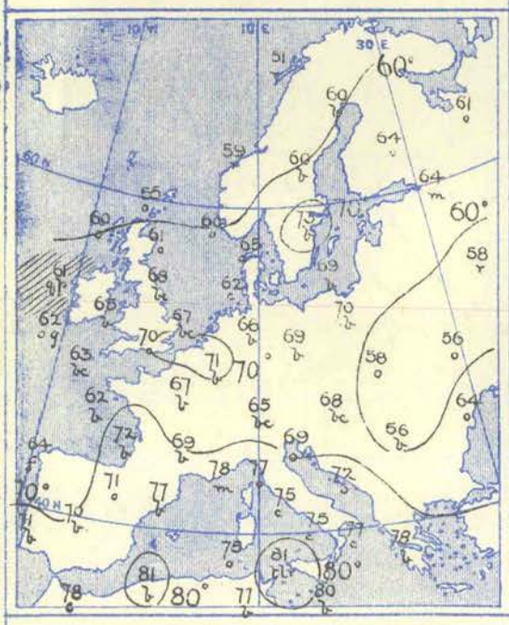
Temperature fallen or undergone little change. Morning readings highest, 87° at Palma, 82° at Sfax, above 75° in most southern localities, 73° at Berlin, 72° at Wisby, and 70° at Stockholm. Lowest, 51° at Bodö, 53° at Kiev, 56° at Hermanstadt, and 57° at Lemberg. Rising during day to 81° at Stockholm, 84° at Berlin and Paris, 85° in London, and to 90° and upwards at many southern stations. Highest values, 97° at Madrid and 102° at Aumale.

Wind continuing light and anticyclonic over the major portion of our area, and light to fresh from South-West or South in Ireland and Scotland. No important change during day.

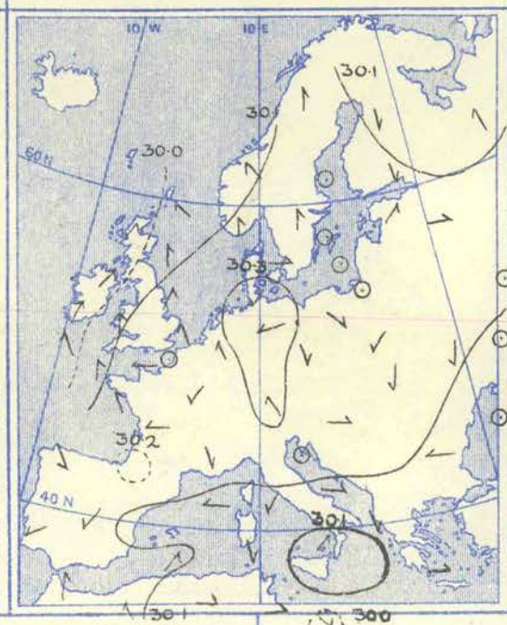
Barometer at 8 a.m. highest, 30·1 ins. to 30·2 ins. and above in a very extensive anticyclone possessing several maxima, and covering the major portion of our area. Lowest, below 29·9 ins. over and to the westward of the Hebrides. Some modification taking place in the shape of the high pressure area during day, and its maximum forming over Jutland.

Wednesday, 3rd August, 1904.

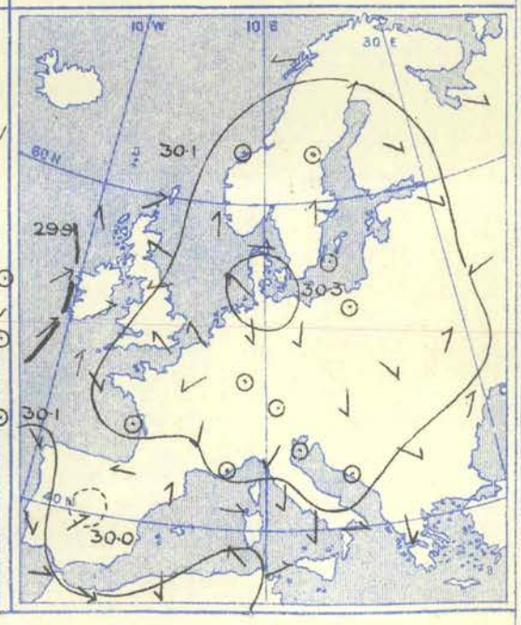
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull in Ireland and Scotland, with rain at Roche's Point and Blacksod Point; fine in almost all other regions, but rainy in the west of Norway, and cloudy or overcast, with some rain in Italy. A thunderstorm in progress at Palermo. Very heavy rain falling on the coasts of Ireland and Norway later—2·0 ins. at Christiansund, 1·7 ins. at Valencia, and 1·5 ins. at Malin Head. Thunderstorms occurring at some of our western stations. About an inch of rain experienced at Brindisi, and 0·3 in. at Naples.

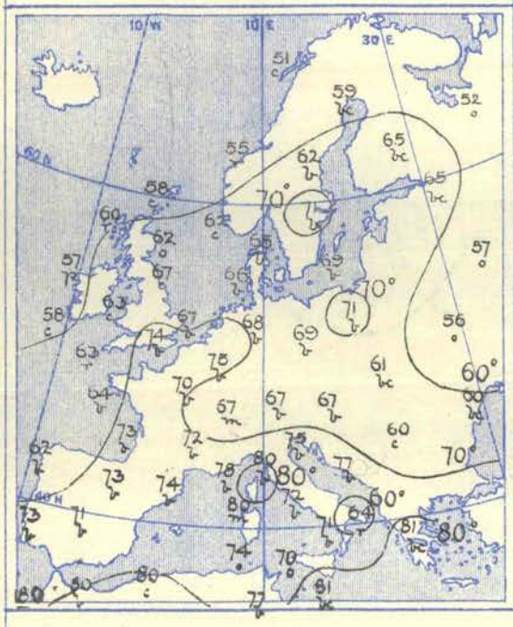
Temperature risen in most places. Morning values ranging from 86° at Barcelona and Palma, 81° at Palermo, 73° at Stockholm, and 70° in London, to 64° at St. Petersburg, 55° at Kharkov and Sumburgh Head, and 51° at Bodö. Rising later to 88° in London and above 90° in the southern parts of our area. Highest values, 96° at Limoges, and 99° at Madrid, Aumale, and Tunis. Maximum as high as 73° at Bodö and 81° at Stockholm.

Wind at 8 a.m. fresh to strong from the Southward or South-Westward on our extreme western coasts; light anticyclonic airs prevailing over Europe generally. Very little change as a whole later, but a feeble cyclonic circulation setting in over Brittany.

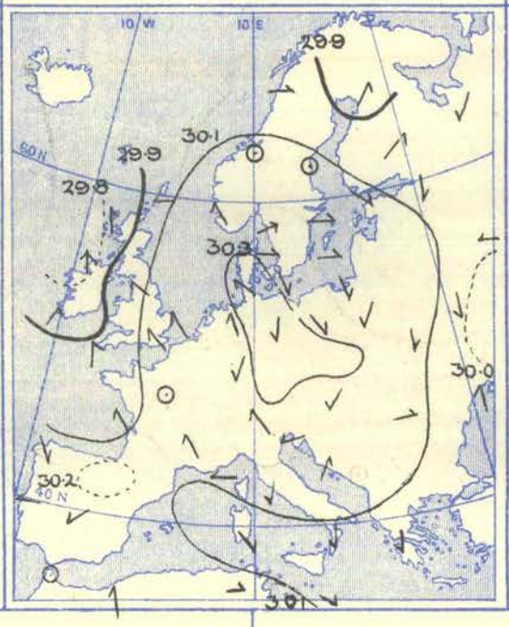
Barometer rising except in Portugal and the west of Ireland. Morning readings highest, 30·2 ins. to upwards of 30·3 ins. in an anticyclone having its centre over Denmark and the west of Germany. Lowest, less than 30·0 ins. over our most western coasts. A depression beginning to affect our most western coasts later in day, and shallow disturbances forming over Brittany and the centre of Spain.

Thursday, 4th August, 1904.

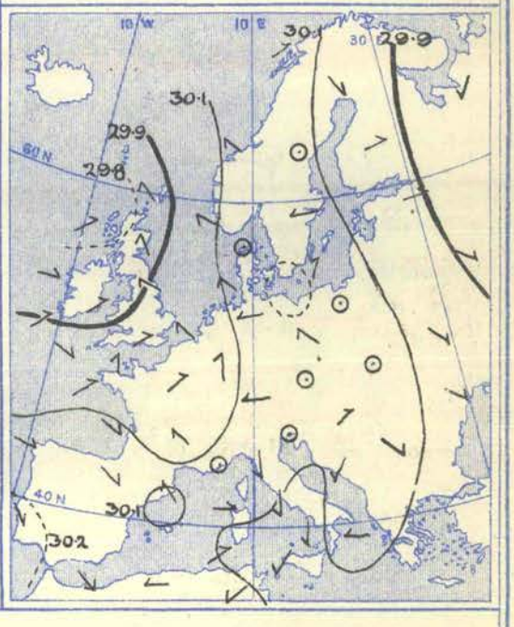
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright generally, but cloudy or dull in Norway and our own western and northern districts, with passing showers or steady rain in places. Thunderstorms later, accompanied by heavy local falls of rain, at nearly all the English stations, and in many parts of France.

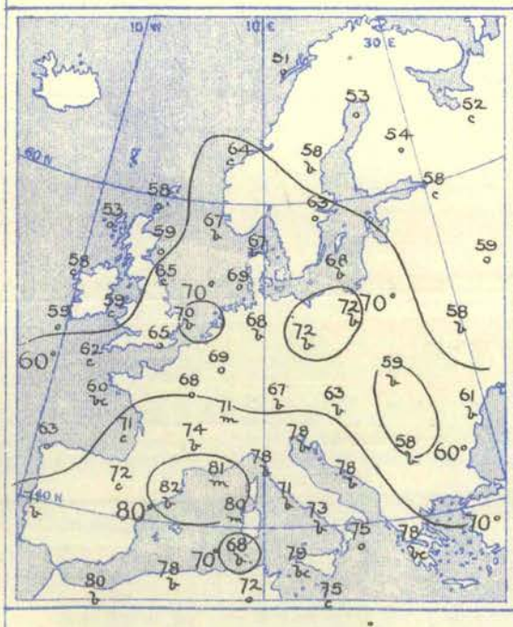
Temperature risen a little in most places. Morning values ranging from 51° and 52° respectively at Bodö and Archangel, to 71° at Stockholm, 74° in London and Palermo, 81° at Malta and Athens, and 87° at Palma. Rising during day to 90° at Margate and 91° in London. Still higher values recorded at the Continental stations, the thermometer rising to 93° at Wiesbaden, 94° at Paris, 98° at Lyons, 99° at Sanguinaires, and to 102° at Sfax.

Wind at 8 a.m. still showing a light anticyclonic movement over the greater part of our area, but cyclonic over the United Kingdom and the west and north of France. Light cyclonic circulation appearing later over the Netherlands and north-east of France.

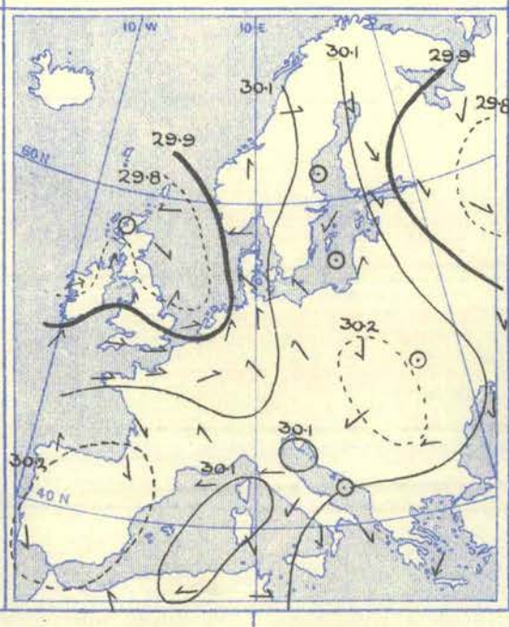
Barometer at 8 a.m. highest, 30·2 ins. to 30·3 ins. and above in a large anticyclone centred over Denmark and Germany. Lowest, less than 29·8 ins. in a depression off our north-west coasts, and not much higher in another system over Lapland. Shallow subsidiary low pressure forming later over the north-east of France, the Netherlands, and our south-eastern counties, and depression in north-west moving slowly away to the north-eastward.

Friday, 5th August, 1904.

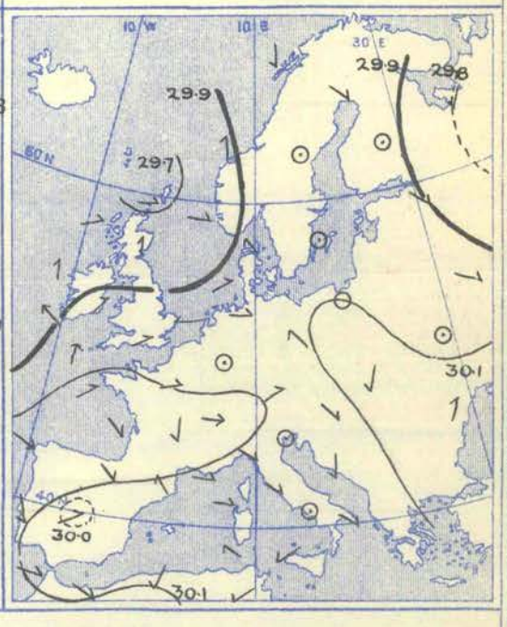
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. dull and rainy over the western and north-western parts of the United Kingdom, and cloudy or overcast in Finland and the north of Russia; fine in almost all other regions. Rain falling later in Ireland, Scotland, the northern half of England, as well as at some stations in Scandinavia and at Munich—heaviest amounts, 0·4 in. at Wick and Valencia Island.

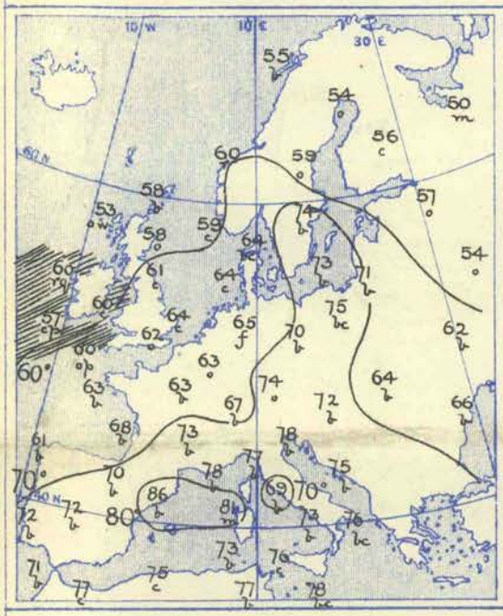
Temperature risen in Norway, Denmark, and the south of Italy, fallen generally elsewhere. Morning values highest, 82° at Barcelona, not much lower at several other southern stations, 73° at the Helder, 72° at Neu-Fahrwasser, 70° at Yarmouth, and 68° or 67° in the south of Scandinavia. Lowest, 51° at Bodö, 52° at Archangel and Wick, and 56° at Kharkov. Maxima during day, 75° at Stockholm, 78° in London, and 90° or rather higher at some stations in Germany and Austria, and in many parts of southern Europe. Highest value, 97° at Madrid.

Wind at 8 a.m. showing a cyclonic circulation around the northern part of the North Sea, but South-Westerly breezes prevailing in Ireland. Light anticyclonic breezes blowing over central and south-western Europe, and a decided North-Westerly current in the north-east. Wind backing to the Southward later in Ireland and the south-west of England, and the cyclonic movement around the North Sea dying out.

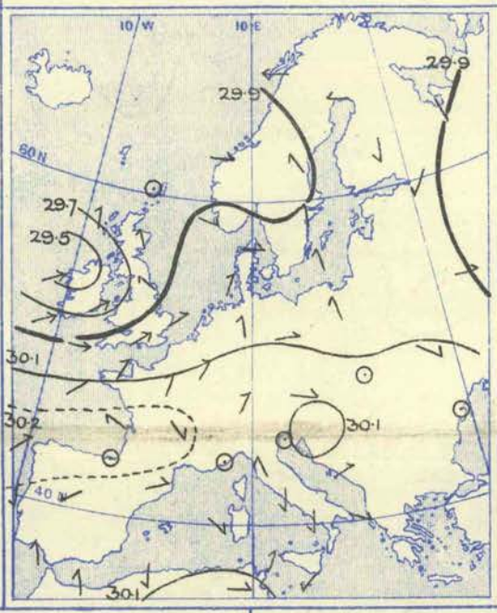
Barometer at 8 a.m. highest, 30·2 ins. and upwards in an anticyclone over Spain, and also in another system over the centre of Europe. Lowest, 29·8 ins. and less (1) over the north-western half of the North Sea and off the west of Scotland, and (2) over the north of Russia. A brisk fall taking place later in the south-west of Ireland, but barometer rising over the North Sea. A small depression forming over central Spain.

Saturday, 6th August, 1904.

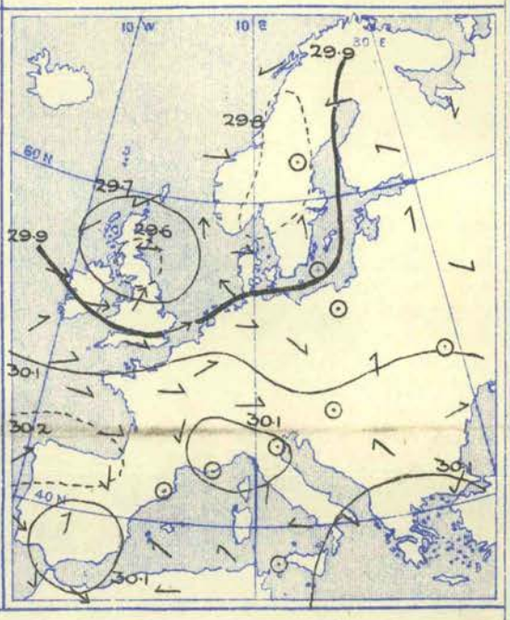
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. rainy and boisterous over the west and north-west of our Islands, and dull or cloudy over the United Kingdom generally, the north of France, on the eastern and southern shores of the North Sea, Finland, and northern Europe as a whole. Fine and bright in the southern and central countries. Rain falling later in most parts of our Islands, Brittany, the north of Europe, and at a few German stations. Largest amounts, 0·5 in. at Leith and Haparanda, 0·8 in. at Sumburgh Head, and 1·0 in. at Ulcaborg.

Temperature changed rather irregularly. Morning values ranging from 86° at Barcelona, above 70° in the south generally, over North Germany, and the south of Sweden, to below 60° in Scotland, most parts of Ireland, and over the extreme northern regions of Europe. Lowest values, 54° at St. Petersburg and 50° at Archangel. Maxima over our Islands, about 70° in the south and east, and 60° in the extreme north and west, but thermometer exceeding 80° over France, central and southern Europe, and rising above 90° in places. Highest readings, 95° at Buda-Pesth and 99° at Madrid.

Wind at 8 a.m. light and of no definite direction over the central and southern countries, moderate from West over the greater part of Norway, Southerly in Sweden, and strong from East at Bodö. A partial cyclonic circulation of fresh to strong winds prevailing over the United Kingdom, the Westerly wind in Wales and the south and west of Ireland blowing a moderate gale. Fresh or strong Westerly gales felt on many parts of our west and north-west coasts later, and fresh or strong breezes over our Islands generally.

Barometer in morning ranging from 30·2 ins. and upwards in an anticyclone embracing the north of Spain, the Bay of Biscay, and most of France, to 29·0 ins. and less over the north of Russia, below 29·8 ins. over the west of Norway, and to less than 29·5 ins. in a deep depression over and outside the north-west of Ireland. Disturbance moving to the east of Scotland by 6 p.m., and a brisk recovery of pressure taking place in its rear. Barometer falling somewhat in most parts of central and southern Europe, and also in Scandinavia.

IV.—GENERAL NOTES, etc.

The dominating feature in the pressure distribution during the week was the presence of an anticyclone of considerable or great size, but usually of irregular form, which had its minimum over or not far from the centre of the Continent, and sometimes extended in a south-westerly or westerly direction to our Islands and France. The low pressure systems were small and shallow and mostly of the thunderstorm type until the week was coming to a close, when the barometer became highest over France and the north of Spain and a depression of considerable depth for the time of year appeared over our north-western districts and moved in a nearly due easterly direction to the North Sea. Before the arrival of this disturbance the winds had been very light and variable, but the cyclonic circulation over our Islands and their neighbourhood on Saturday was very well defined and fresh or strong to a gale in force. Gales from between south-west and west were very generally experienced over the northern half of England and Wales, and also in some Irish localities. Very dry weather again prevailed over all the central countries, but in the western and north-western regions rain, sometimes accompanied by thunder and lightning, was rather frequent. Very heavy falls were experienced in the west of Norway, and in the north and west of Ireland on Wednesday, and in various parts of France on the day following. Temperature was high generally, but a considerable fall took place at the end of the week under the influence of the depression noted above.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 182.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	40·1	+ 11·0	35	+ 10
STRATHPEFFER SPA	16·1	- 11·9	14	- 11
CRATHES	27·9	—	25	—
EDINBURGH	34·5	+ 1·8	31	+ 2
COCKLE PARK	53·6	—	49	—
NEWCASTLE-ON-TYNE	45·8	—	42	—
YORK	? 47·3	? +11·8	? 44	? + 11
SKEGNESS	? 64·9	—	? 61	—
CROMER	68·5	—	64	—
LOWESTOFT	70·4	—	66	—
DUNMOW	66·7	—	63	—
SHEFFIELD	63·1	—	58	—
WORKSOP	57·6	+ 23·0	54	+ 22
THURCASTON	68·8	+ 30·4	64	+ 28
MARGATE	64·5	+ 21·0	61	+ 20
BROADSTAIRS	65·9	—	62	—
RAMSGATE	65·1	—	61	—
EASTBOURNE	63·6	+ 14·6	61	+ 14
BRIGHTON	68·1	+ 17·7	65	+ 17
WORTHING	64·7	—	62	—
BOGNOR	72·0†	—	69†	—
WESTBOURNE	68·2†	+ 19·8	65†	+ 19
VENTNOR HOSPITAL	65·7	+ 18·4	63	+ 18
BOURNEMOUTH	71·2	—	68	—
MARLBOROUGH	65·3	+ 24·0	62	+ 23
SOUTHPORT	55·1	—	51	—
RHYL	54·1	—	51	—
ABERDOVEY	55·0†	—	51†	—
TENBY	64·2	+ 19·1	61	+ 18
TORQUAY	68·1	+ 19·7	65	+ 19
NEWQUAY	58·6	+ 11·1	56	+ 11
GUERNSEY	68·5†	+ 12·4	66†	+ 12

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values below must be substituted for those which have already appeared.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Twenty-Seventh Year, No. 13, p. 74	Hereford	—	—	—	34·6	—	—	—	—	—	—	—	—	—	—	—
" " " "	Dungeness	—	—	—	39·6	41·8	- 1·7	—	22	—	—	—	—	—	—	—
" " " " 78	Skegness	—	—	—	—	—	—	—	—	—	—	—	37·0	—	42	—
" " " No. 14, p. 80	Shields	—	—	—	—	—	—	—	—	—	0·50	+0·12	—	—	—	—
" " " "	Hillington	—	—	—	41·0	—	—	—	—	—	—	—	—	—	—	—
" " " "	Hereford	—	—	—	42·0	48·7	+ 3·9	—	0	—	—	—	—	—	—	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 32. THIRTY-SECOND WEEK, ENDING SATURDAY, AUGUST 13TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 188.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	68	40	60·8	47·0	53·5	1 below	81	− 9	0	0	1280	+ 7	477	− 72
	1. SCOTLAND, EAST	71	41	63·6	47·9	55·3	1 below	93	−10	0	0	1427*	−112	585	− 7
	2. ENGLAND, N.E.	72	45	66·3	49·8	57·5	1 below	109	− 6	0	0	1744	+100	431	− 59
	3. ENGLAND, EAST	74	42	69·6	51·1	59·8	1 below	125	− 2	0	0	1967	+ 39	404	−131
	4. MIDLAND COUNTIES	73	40	67·1	47·6	56·8	3 below	104	−19	0	0	1850*	− 81	474	− 73
	5. ENGLAND, SOUTH	77	39	69·1	52·0	60·1	1 below	127	− 9	0	0	2012	− 84	345	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	70	44	63·3	49·1	55·7	1 below	96	−10	0	0	1563	− 66	375	− 42
	7. ENGLAND, N.W.	70	44	64·2	50·8	57·1	2 below	106	−12	0	0	1706	− 64	386	− 13
	8. ENGLAND, S.W.	74	42	67·4	51·5	59·0	1 below	119	− 5	0	0	1967	0	252	− 53
	9. IRELAND, NORTH	67	44	61·9	50·1	55·6	2 below	95	−14	0	0	1585	−151	337	− 20
	10. IRELAND SOUTH	70	45	64·8	51·1	57·5	1 below	109	− 9	0	0	1887	− 97	232	− 24
	— CHANNEL ISLANDS	73	49	66·5	56·2	61·1	1 below	134	− 5	0	0	2244	+ 22	80	− 41

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 188.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	12	3 more	146	+12	30·5	+ 3·7	27	+ 2	25	+ 1	836	+ 13	28	0
	1. SCOTLAND, EAST	6	11	4 more	127	+11	17·4	− 0·1	34	+ 1	32	+ 1	853	− 83	28	− 3
	2. ENGLAND, N.E.	4	5	1 less	108	+ 2	12·8	− 1·2	48	+10	45	+10	966*	− 65	32	− 2
	3. ENGLAND, EAST	2	2	3 less	101	− 7	12·4	− 1·1	61	+19	59	+18	1134	− 5	38	0
	4. MIDLAND COUNTIES	3	2	4 less	114	+11	15·4	− 0·2	54	+17	51	+16	959	+ 3	32	0
	5. ENGLAND, SOUTH	2	4	2 less	113	+13	16·2	+ 1·0	65	+20	63	+20	1129	+ 16	38	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	4	13	3 more	131	+12	30·2	+ 3·0	45	+16	43	+15	904	− 80	30	− 3
	7. ENGLAND, N.W.	4	7	1 less	124	+13	18·3	− 0·1	53	+19	50	+18	995	+ 51	33	+ 2
	8. ENGLAND, S.W.	3	6	2 less	125	+13	23·7	+ 3·2	63	+16	61	+16	1070	− 92	36	− 3
	9. IRELAND, NORTH	7	18	9 more	155	+19	24·7	+ 4·6	31	+ 2	30	+ 2	849	− 54	28	− 2
	10. IRELAND, SOUTH	3	7	2 less	141	+18	25·5	+ 2·8	47	+12	45	+12	949	− 66	32	− 2
	— CHANNEL ISLANDS	3	6	1 more	138	+23	21·6	+ 4·6	54	0	53	0	1255	− 73	43	− 3

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was fair or fine over the Kingdom as a whole, but rain was frequent, and sometimes heavy, in the far north and north-west. Thunder and lightning occurred at Marchmont on Wednesday.

Temperature was below the mean, the deficit ranging from 1° in the majority of districts to 3° in the Midland Counties. The highest of the maxima were registered, as a rule, during the earlier days of the week, and varied from 77° in England S. to 67° in Ireland N. The lowest of the minima, which were recorded as the week drew towards its close, were as low as 39° in England S. (at Swarraton on Saturday), 40° in the Midland Counties and Scotland N., and 41° in Scotland E. Elsewhere they ranged from 42° in England E. and S.W. to 45° in Ireland S. and England N.E., and to 49° in the Channel Islands.

Rainfall was again more than the mean in Scotland, as well as in Ireland N. and the Channel Islands, but less in the south of Ireland and throughout England. In Ireland the fall was just twice as much as the mean amount.

Bright Sunshine exceeded the mean in all districts except the Channel Islands. The percentage of the possible duration ranged from 63 in England S., 61 in England S.W., and 59 in England E., to 30 in Ireland N., and to 25 in Scotland N.

Barometer and Wind. The distribution of pressure over our Islands and their immediate neighbourhood was comparatively simple. The barometer was highest to the south-westward or southward, while depressions skirted our western and northern coasts from the south-westward or westward. The disturbances were few and of slight intensity until the latter half of the week, when they became larger and deeper, but it was not until Saturday, when the high pressure had receded to central Europe, that they were sufficiently deep to have much effect on the force of the wind. The depression and its secondaries, then shown in the north-west, caused the South-Westerly wind to increase greatly in strength over the Kingdom generally, and to blow a moderate to strong gale on several parts of our western coasts.

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II.—DATA from which the SUMMARY on page 187 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	58	44	55·7	47·0	51·1	− 1·9	64	0	3	0·54	− 0·15	*	*	*	*
	Stornoway	63	45	60·6	47·9	53·9	− 0·4	83	0	7	1·62	+ 0·82	44·1	+ 14·0	41	+ 13
	Wick	64	42	60·7	47·1	53·5	− 1·2	81	0	7	0·92	+ 0·35	*	*	*	*
	Lairg Ş	68	40	62·9	45·4	53·6	− 0·9	81	0	7	1·28	+ 0·65	*	*	*	*
	Glencarron Ş	62	41	60·3	46·3	52·9	− 1·6	76	0	7	1·55	+ 0·08	*	*	*	*
	Fort Augustus Ş	65	43	63·0	46·7	54·4	− 2·1	87	0	4	0·93	+ 0·21	24·0	+ 3·5	22	+ 3
	Fort William	64	42	62·2	48·8	55·1	− 1·9	92	0	7	1·63	+ 0·35	26·5	+ 2·9	25	+ 3
1. SCOTLAND, E.	Nairn	68	41	63·4	48·1	55·3	− 1·1	93	0	6	0·86	+ 0·25	*	*	*	*
	Aberdeen	67	45	61·9	50·0	55·6	− 0·8	95	0	6	1·08	+ 0·41	27·1	− 7·9	25	− 7
	Braemar Ş	63	42	59·8	45·6	52·3	− 1·4	72	0	5	0·79	− 0·04	*	*	*	*
	Ochtertyre Ş	71	43	66·0	47·0	55·9	− 1·2	97	0	5	1·75	+ 0·91	*	*	*	*
	Leith	71	48	67·6	50·9	58·8	+ 0·6	118	0	6	1·28	+ 0·69	*	*	*	*
	Marchmont Ş	66	43	63·1	45·9	54·0	− 2·0	84	0	5	0·83	+ 0·06	37·5	+ 2·1	35	+ 2
2. ENGLAND, N.E.	Alnwick Castle	70	46	66·3	48·6	56·9	+ 0·1	104	0	5	1·11	+ 0·41	*	*	*	*
	Durham	69	47	65·7	49·0	56·9	− 1·3	104	0	5	0·39	− 0·25	42·1	+ 8·1	40	+ 8
	Shields	70	46	64·7	49·0	56·4	− 1·0	101	0	5	0·64	0·00	*	*	*	*
	Scarborough Ṁ	72	47	66·4	50·1	57·8	− 0·6	111	0	5	0·39	− 0·23	44·8	—	43	—
	Spurn Head	70	52	65·4	54·0	59·4	+ 0·1	122	0	1	0·45	+ 0·03	*	*	*	*
	Lincoln	72	47	67·6	49·3	57·9	− 2·0	111	0	3	0·10	− 0·45	*	*	*	*
	Fulbeck (Lincolnshire)	72	45	67·9	48·3	57·5	− 1·9	109	0	3	0·26	− 0·29	58·7	—	56	—
3. ENGLAND, E.	Hillington Ṁ	73	42	69·5	46·9	57·5	− 2·5	109	0	3	0·27	− 0·37	56·2	+ 15·2	54	+ 15
	Yarmouth	70	50	67·3	53·9	60·2	+ 0·1	127	0	2	0·20	− 0·30	*	*	*	*
	Geldeston	73	44	70·2	50·0	59·5	− 0·5	123	0	2	0·14	− 0·32	53·7	+ 9·7	52	+ 9
	Cambridge	74	43	69·5	48·7	58·5	− 2·5	116	0	3	0·14	− 0·40	64·9	+ 22·2	62	+ 21
	Felixstowe	73	49	70·2	52·4	60·8	+ 0·4	132	0	3	0·18	—	54·5†	—	53†	—
	Clacton-on-Sea	74	49	70·7	53·3	61·5	+ 0·8	137	0	2	0·15	—	60·5†	—	59†	—
	Rothamsted	70	42	67·7	50·0	58·3	− 1·5	114	0	2	0·24	− 0·31	70·5	+ 27·1	68	+ 26
	Shoeburyness	74	52	71·3	53·9	62·1	+ 0·9	141	0	1	0·24	− 0·16	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	68	46	64·1	48·4	55·8	− 1·8	97	0	4	0·55	− 0·09	50·2	—	48	—
	Bawtry (Hesley Hall)	71	—	66·7	—	—	—	—	—	3	0·12	− 0·41	*	*	*	*
	Nottingham	70	44	66·9	48·0	56·9	− 3·4	104	0	2	0·05	− 0·51	52·3	—	50	—
	Colly Weston (Stamford)	73	45	69·7	47·7	58·0	− 2·8	112	0	3	0·21	− 0·34	*	*	*	*
	Cheadle Ṁ	68	46	64·7	48·4	56·1	− 1·3	99	0	4	0·34	− 0·43	*	*	*	*
	Birmingham (Edgbaston)	69	48	66·4	48·9	57·1	− 2·0	106	0	1	0·09	− 0·53	56·3	—	54	—
	Shrewsbury	70	42	67·7	46·1	56·3	− 3·1	100	0	2	0·02	—	*	*	*	*
	Hereford Ṁ	71	41	68·3	45·6	56·3	− 4·3	100	0	4	0·20	− 0·34	*	*	*	*
	Cirencester	71	40	67·6	44·4	55·3	− 3·4	93	0	2	0·31	− 0·37	60·3	+ 18·3	59	+ 18
	Oxford	72	47	68·7	50·6	59·1	− 1·6	120	0	1	0·17	− 0·37	63·7	+ 21·4	62	+ 21
5. ENGLAND, S.	London	75	46	72·1	52·4	61·7	− 0·3	138	0	1	0·08	− 0·43	65·0‡	+ 25·6‡	63‡	+ 25‡
	Wisley (Surrey)	73	44	70·1	50·6	59·8	− 2·5	125	0	1	0·16	—	66·1	—	64	—
	Swarraton (Alresford) Ṁ	72	39	68·4	47·6	57·4	− 1·5	108	0	3	0·84	+ 0·21	*	*	*	*
	Tunbridge Wells Ṁ	74	45	70·3	49·9	59·5	− 1·4	123	0	2	0·22	—	68·1	—	66	—
	Dungeness	70	47	67·6	53·4	60·1	− 1·5	127	0	2	0·08	− 0·42	57·6	—	56	—
	Hastings (St. Leonards)	71	49	68·1	54·6	61·0	− 0·3	133	0	2	0·16	− 0·37	68·1	+ 19·5	66	+ 19
	Southampton	77	47	72·1	52·6	61·8	− 0·3	139	0	3	0·62	+ 0·04	69·2	+ 21·8	67	+ 21
	Portland Bill	69	54	66·0	56·1	60·8	0·0	132	0	3	0·82	—	*	*	*	*
	Shaftesbury Ṁ	71	48	67·6	51·0	58·8	− 0·7	118	0	3	0·56	− 0·08	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	65	45	62·8	48·5	55·2	− 2·0	92	0	3	2·14	+ 0·91	*	*	*	*
	Glasgow	65	46	61·8	49·9	55·5	− 1·3	95	0	4	1·10	+ 0·23	45·4	+ 16·0	42	+ 15
	Cally Ş	70	44	65·7	46·7	55·6	− 1·2	95	0	6	0·86	− 0·15	*	*	*	*
	Aspatria	66	47	62·6	50·3	56·1	− 1·1	99	0	4	1·03	—	36·3	—	34	—
	Douglas (Isle of Man)	65	48	63·4	49·9	56·3	− 0·8	100	0	4	1·15	+ 0·31	54·5	+ 14·9	52	+ 14
7. ENGLAND, N.W.	Newton Rigg	67	44	61·9	46·9	54·0	− 2·5	84	0	5	0·44	—	40·9	—	39	—
	Stonyhurst	64	48	61·7	50·1	55·6	− 2·5	95	0	6	1·39	+ 0·26	53·1	+ 18·6	51	+ 18
	Blackpool Ṁ	69	47	64·5	53·5	58·7	− 0·6	117	0	4	0·95	+ 0·19	56·8	+ 20·6	54	+ 20
	Manchester (Prestwich)	69	44	64·8	49·0	56·4	− 2·1	101	0	6	1·09	+ 0·25	48·3	—	46	—
	Liverpool Obsy. (Bidston)	70	48	64·0	52·1	57·7	− 2·0	110	0	4	0·54	− 0·11	59·1	—	56	—
	Chester (Hawarden Bridge)	70	46	65·8	52·2	58·6	− 1·4	116	0	4	0·27	—	*	*	*	*
	Llandudno Ṁ	66	51	64·4	52·3	58·0	− 2·1	112	0	4	0·38	− 0·25	56·1	+ 18·6	53	+ 18
	Holyhead	66	50	64·1	52·7	58·1	− 0·8	113	0	3	0·58	− 0·07	*	*	*	*
	Bettws-y-Coed	70	44	66·6	48·4	57·0	− 2·4	105	0	4	0·79	—	40·7	—	39	—
8. ENGLAND, S.W.	Pembroke	65	52	62·4	54·9	58·4	− 0·6	115	0	2	0·45	− 0·19	67·6	+ 23·2	66	+ 23
	Clifton	73	50	69·0	53·1	60·6	− 0·1	130	0	2	0·38	− 0·37	*	*	*	*
	Bath	74	42	69·1	49·3	58·6	− 2·4	116	0	2	0·29	− 0·34	70·7	—	69	—
	Arlington (N. Devon)	70	46	69·7	49·0	58·7	+ 0·2	117	0	5	0·52	− 0·58	*	*	*	*
	Cullompton Ṁ	72	42	69·5	48·4	58·3	− 2·1	114	0	2	0·44	− 0·20	60·0	+ 18·0	58	+ 18
	Falmouth	68	51	65·5	53·9	59·4	− 0·8	122	0	3	0·87	+ 0·10	57·6	+ 9·1	57	+ 9
	Plymouth	68	47	66·6	52·1	58·9	− 2·1	118	0	4	0·89	+ 0·25	59·1	+ 14·0	58	+ 14
9. IRELAND, N.	Malin Head	63	50	61·4	51·9	56·4	− 1·1	101	0	7	1·30	+ 0·57	*	*	*	*
	Edenfel (Omagh)	65	45	61·0	48·9	54·6	− 2·2	88	0	7	2·01	+ 1·16	*	*	*	*
	Blacksod Point	62	49	61·1	50·7	55·6	− 2·3	95	0	7	2·33	+ 1·28	*	*	*	*
	Markree Castle	65	44	61·9	49·9	55·5	− 1·3	95	0	7	1·19	+ 0·27	26·4	− 3·4	25	− 3
	Armagh	67	44	64·3	49·1	56·2	− 1·4	99	0	6	1·96	+ 1·22	36·1	+ 7·2	34	+ 7
	Donaghadee	66	48	61·4	50·1	55·4	− 1·9	94	0	6	1·83	+ 1·09	*	*	*	*
10. IRELAND, S.	Dublin	70	48	66·9	52·2	59·1	− 0·4	120	0	4	0·30	− 0·37	46·3	+ 9·4	44	+ 9
	Birr Castle	67	46	64·6	49·6	56·7	− 1·8	103	0	4	0·71	− 0·13	41·1	+ 9·4	40	+ 9
	Kilkenny	68	46	65·4	49·3	56·9	− 2·0	104	0	2	0·68	− 0·08	*	*	*	*
	Waterford	69	48	65·7	51·0	57·9	− 0·8	111	0	2	1·00	+ 0·10	*	*	*	*
	Roche's Point	67	50	64·3	52·4	58·0	− 1·5	112	0	3	0·75	− 0·11	*	*	*	*
	Valencia	64	46	61·6	51·4	56·2	− 2·8	99	0	5	1·40	+ 0·36	52·3	+ 17·6	51	+ 17
	Killarney	69	45	66·3	50·9	58·1	− 1·0	113	0	3	0·26	− 0·78	*	*	*	*
	Foynes	66	47	63·9	51·7	57·4	− 0·8	108	0	3	0·52	− 0·40	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	67	55	64·9	56·7	60·6	− 0·1	130	0	3	0·75	+ 0·20	55·8	+ 3·8	55	+ 4
	Jersey	73	49	68·1	55·6	61·5	− 1·5	137	0	3	0·50	− 0·04	53·7	− 1·8	53	− 2

Stations Marked Ṁ are in connection with the Royal Meteorological Society, and those marked Ş with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

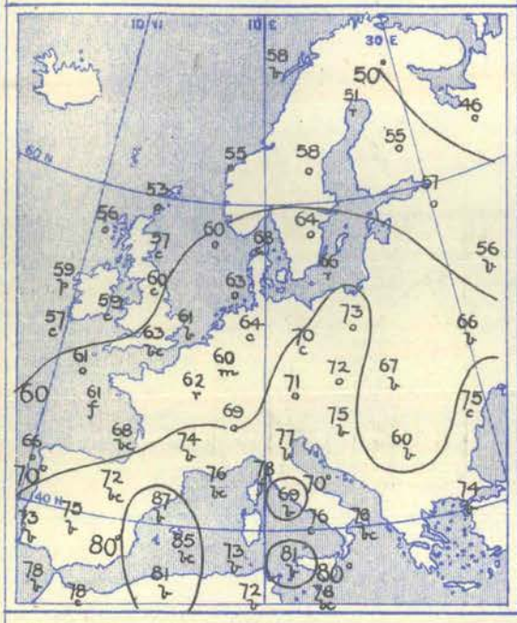
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

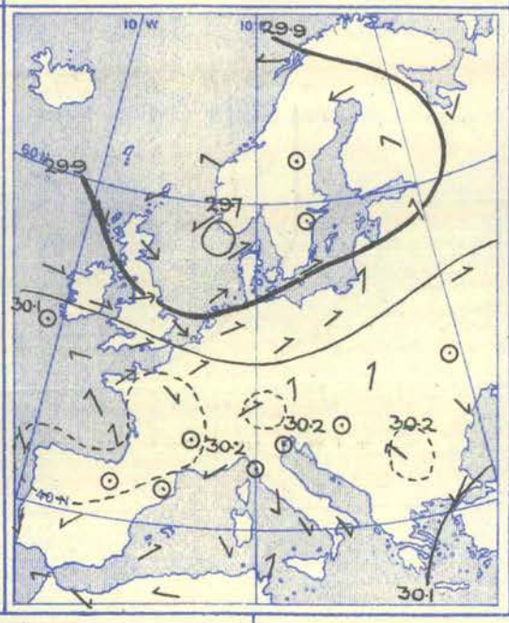
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 7th August, 1904.

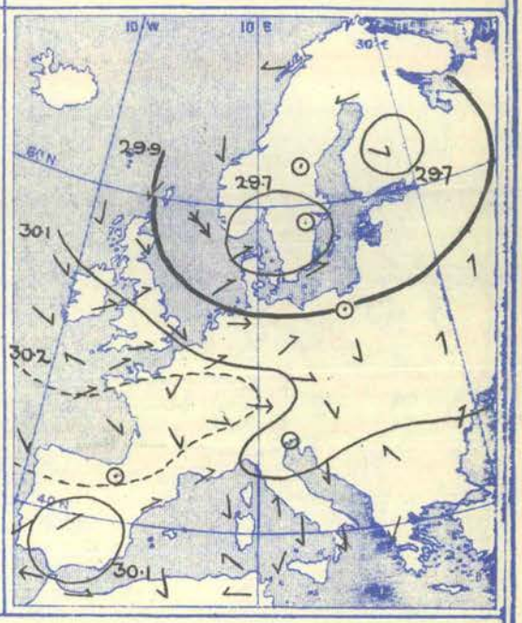
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull over the north-west and north of our Islands and also over the northern half of the Continent, with showers or steady rain in several places. Fine in most other regions, but rainy at Paris and Lorient. Considerable rain later in Brittany, the south-west of England, at Paris, in Norway, and Finland, and slight amounts in Germany and Scotland.

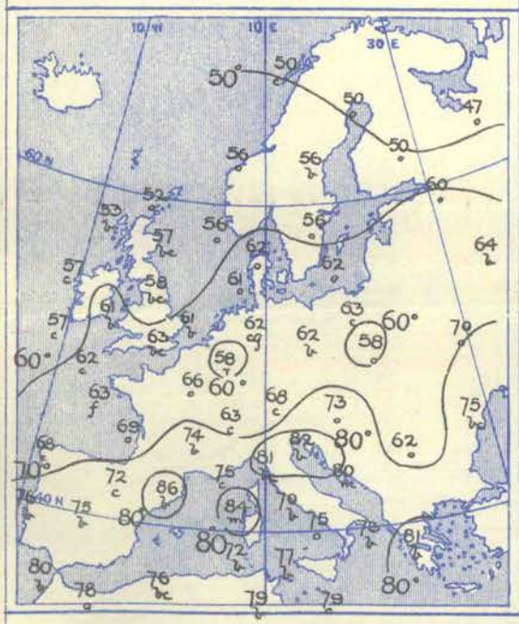
Temperature fallen somewhat in the western and northern countries. Readings at 8 a.m. highest, 87° and 85° respectively at Barcelona and Palma, 82° at Cape Sicié, and 81° at Palermo. Lowest, 46° at Archangel, 51° at Uleaborg, 53° at Sumburgh Head, 54° at Nairn, 56° at Moscow, and 57° at St. Petersburg, Liverpool, and at some Irish stations. Rising during day to 107° at Madrid, 95° at Lyons, Toulouse, Florence, and Sfax, 91° at Patras, and to nearly 90° at many other southern stations. Maxima between 70° and 80° over central Europe, and also at St. Petersburg and the south of Sweden. Highest in the United Kingdom, 74° in London.

Wind at 8 a.m. cyclonic in all the northern countries, the Westerly current blowing strongly on our east coasts, over the Netherlands, and Denmark. Light and variable airs prevailing elsewhere. Force of wind decreasing on our east coasts by evening, but gale from North-West setting in in the south-west of Norway.

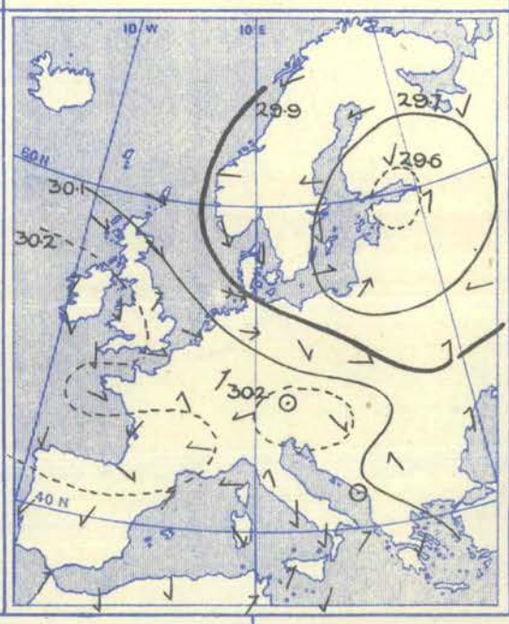
Barometer at 8 a.m. ranging from 30·1 ins. to above 30·2 ins. in an extensive area embracing the southern half of Europe, to below 29·8 ins. in a large depression extending from Scotland to Finland, and having its chief centre in the extreme south of Norway. Depression travelling eastwards later, increasing somewhat in depth, and developing two distinct minima. Barometer rising over our Islands.

Monday, 8th August, 1904.

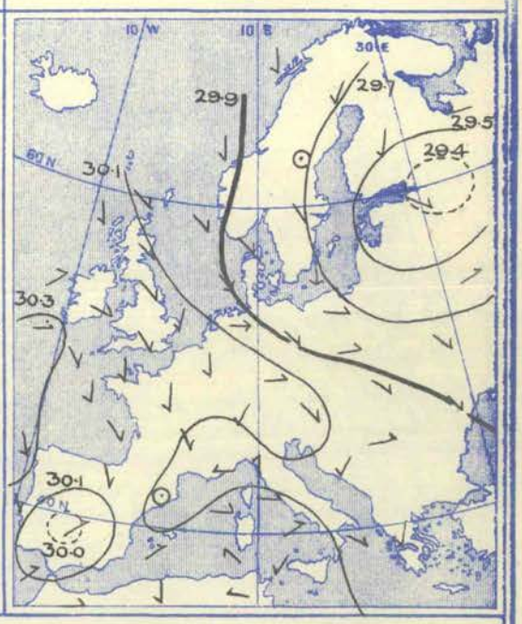
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in most parts of the United Kingdom and southern Europe; cloudy or overcast elsewhere, with fog in Brittany, and rain at Le Havre, Brussels, and Frankfurt. Slight rain falling later at our own northern and western stations, in various parts of Germany, and at Paris, and nearly 2 ins. at St. Petersburg. Thunderstorms occurring locally in the south of France.

Temperature showing no decided change. Morning readings ranging from 50° or rather lower in the extreme north, and 52° at Sumburgh Head, to 64° at Moscow, above 70° in the south of Russia, at Buda-Pesth, and in the countries bordering the Mediterranean, to 82° at Trieste, and to 86° at Barcelona. Rising subsequently to 68° at Haparanda, above 70° in the south and south east of England, and to several degrees above 80° in the southern regions. Highest values, 91° at Rome, 96° at Lyons, 99° at Sfax, and to 106° at Madrid.

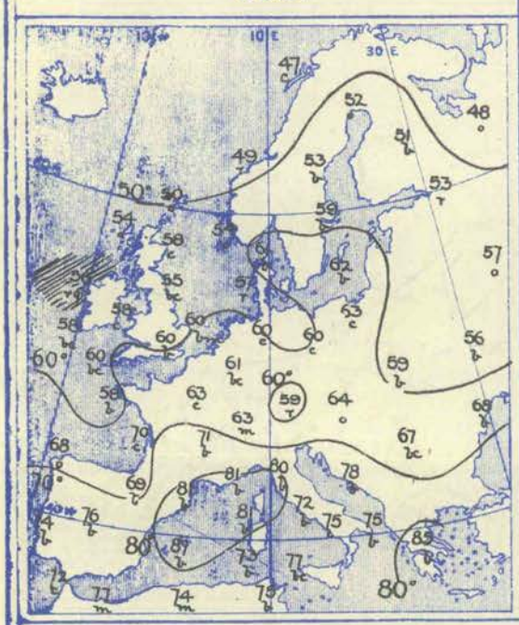
Wind at 8 a.m. showing a vast cyclonic circulation over the north of Europe, light or moderate generally, but strong to a gale from the Westward over the Baltic and Denmark. Light anticyclonic or variable airs prevailing elsewhere. Little change in direction later, but force becoming less strong over Denmark and its vicinity.

Barometer at 8 a.m. highest, 30·1 ins. to above 30·2 ins. in a large area with two distinct maxima embracing the United Kingdom, central, and nearly the whole of southern Europe. Lowest, 29·6 ins. and less in a very large low pressure area having its centre over the Gulf of Finland. Latter system moving eastwards later. Little other change occurring except the formation of a small minimum near Madrid.

Tuesday, 9th August, 1904.

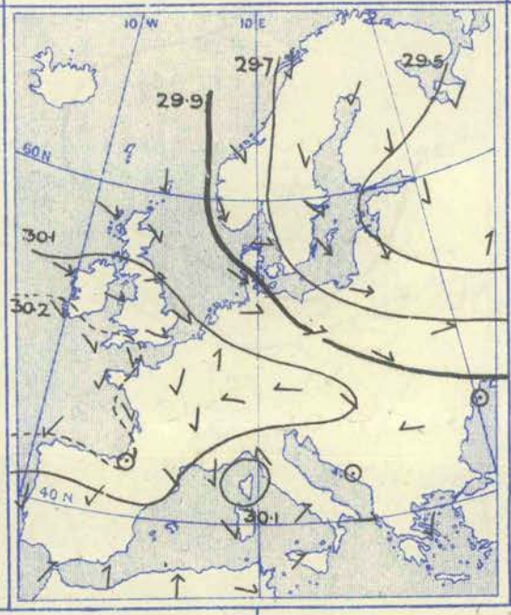
Temperature and Weather.

8 a.m.

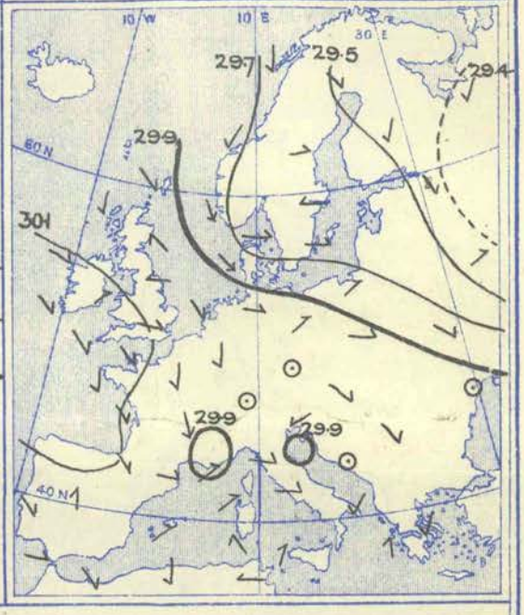


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. fine and bright in nearly all the southern regions and the greater part of our Islands, but much cloud prevailing in Ireland, Scotland, and over the northern countries generally, as well as at some stations in central Europe. Rain falling at Munich, St. Petersburg, Christiansund, Fanö, and Blacksod Point, and a thunderstorm in progress at Biarritz. Some rain falling later over the west and north of our Islands and over the northern parts of the Continent—largest quantity, 0·8 in. at Haparanda.

Temperature fallen as a whole. Morning values ranging from 90° at Barcelona, 85° at Athens, and 81° at Pesaro, Nice, and Perpignan, to below 60° at most of our own stations, to 50° at Sumburgh Head, 48° at Archangel, and to 47° at Bodö. Maxima during day as high as 104° at Madrid, 97° in Greece, at Tunis, and Croisette, 93° at Florence, and above 85° at most of the southern stations, 74° in London, 72° at Stockholm, and 71° at Leith.

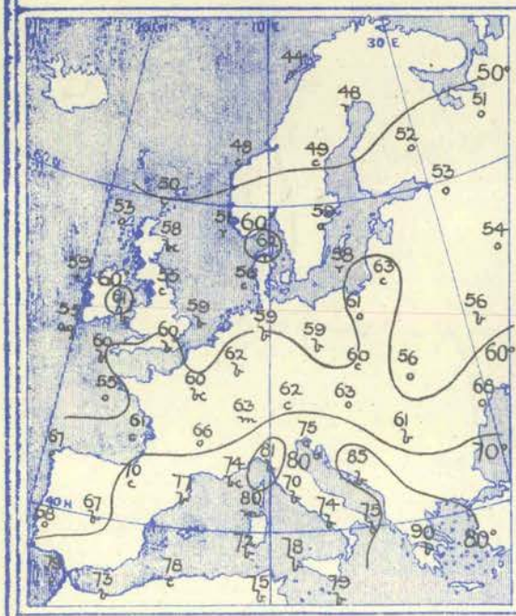
Wind at 8 a.m. strong to light between North-West and West over the northern countries of the Continent, but drawing into South-West at Moscow. Light or moderate and mainly anticyclonic elsewhere, but a slight anticyclonic circulation shown over the Gulf of Genoa. Scarcely any change later.

Barometer in morning highest, 30·1 ins. to above 30·2 ins. in a large anticyclone extending from the Atlantic to Hungary. Lowest, 29·5 ins. and less over the northern half of Russia. Not much change taking place in the general distribution during day, but Russian depression increasing somewhat in depth, and a rather general but slight decrease of pressure occurring in almost all regions.

Wednesday, 10th August, 1904.

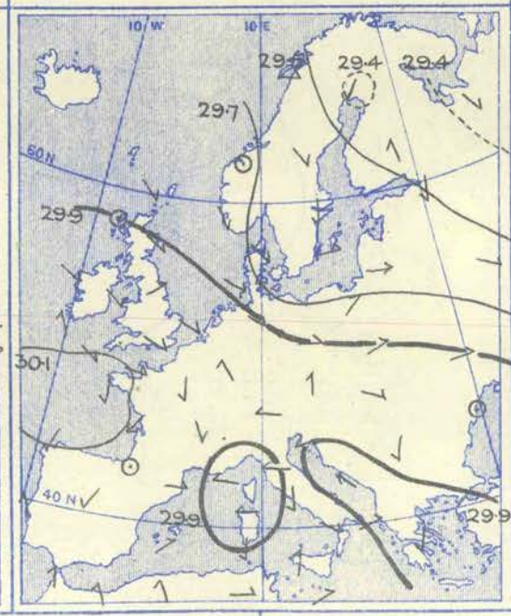
Temperature and Weather.

9 a.m.

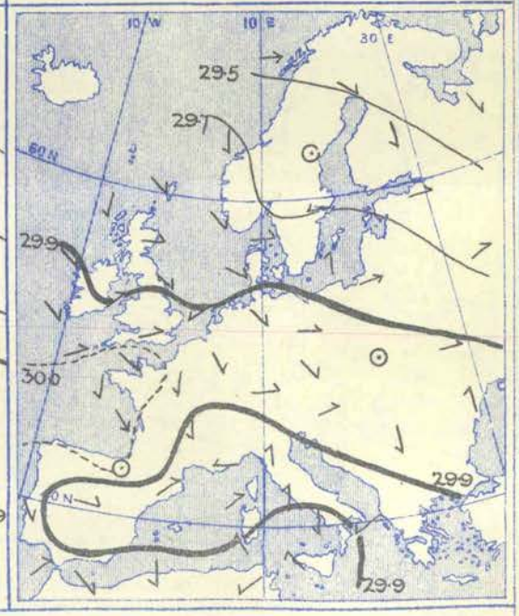


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. fine and bright over Italy, on most shores of the Mediterranean, and over the greater part of England; cloudy or dull over Europe as a whole, with rain in the north-west of Ireland, many parts of Scandinavia, and in the north of Denmark. Considerable quantities of rain falling later in the west and north of our Islands, in northern Italy, and the most northern countries of Europe. Largest amounts, 1·0 in. at Donaghadee and 0·6 in. at Wisby. Thunderstorms experienced in central and southern France.

Temperature fallen in most places. Readings in morning highest, 90° at Athens, 87° at Palma, 85° at Lesina, about 80° at several other southern stations, and 73° at Nicolaieff. Lowest, 44° at Bodö, 50° in the Shetlands, 54° at Moscow, and 56° at Kiev, Lemberg, Le Mans, Nottingham, and Roche's Point. Rising subsequently to 90° at Tunis, 97° at Madrid, 94° at Perpignan, 93° at Florence, and between 80° and 90° in most southern regions. Maxima, 75° at Paris and in London, and 70° at Berlin.

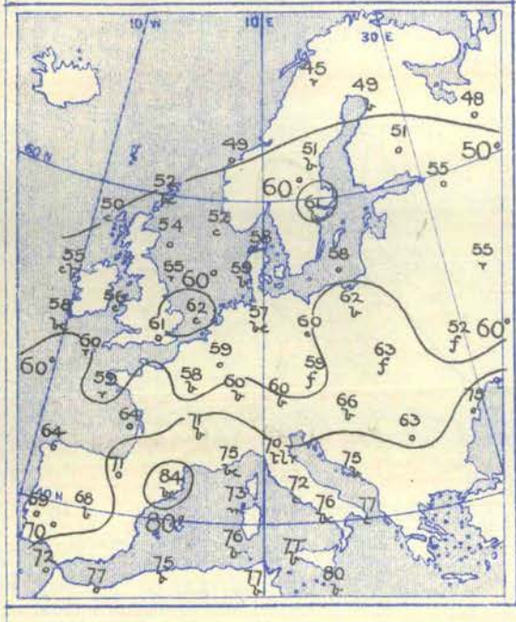
Wind in morning strong from West-North-West on the coast of Jutland, and light or moderate from about the same direction over the northern half of our area generally. Light and anticyclonic over the Bay of Biscay and its neighbourhood, and light and variable elsewhere. Little change in direction during day, but force decreasing in Jutland.

Barometer at 8 a.m. ranging from above 30·1 ins. and upwards in an anticyclone over the Bay of Biscay, to below 29·9 ins. in some large, shallow depressions over the south of Europe, and to less than 29·4 ins. in other systems in the extreme north and north-east. A small disturbance reaching Ireland from the Atlantic by 6 p.m., and great diurnal range causing another minimum over central Spain. A small secondary over the south of Sweden travelling eastwards to Gothland.

Thursday, 11th August, 1904.

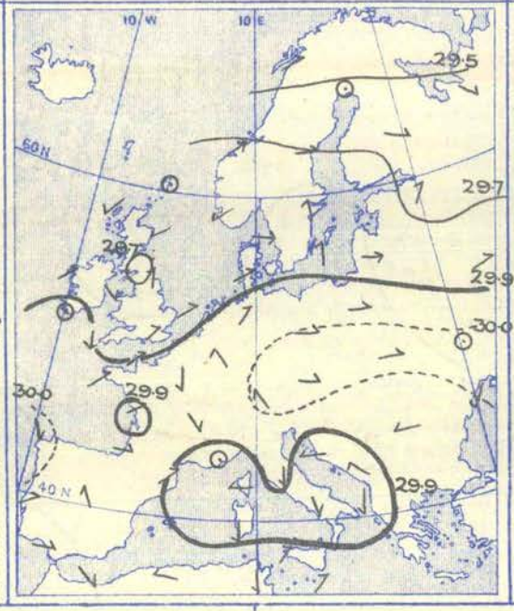
Temperature and Weather.

8 a.m.

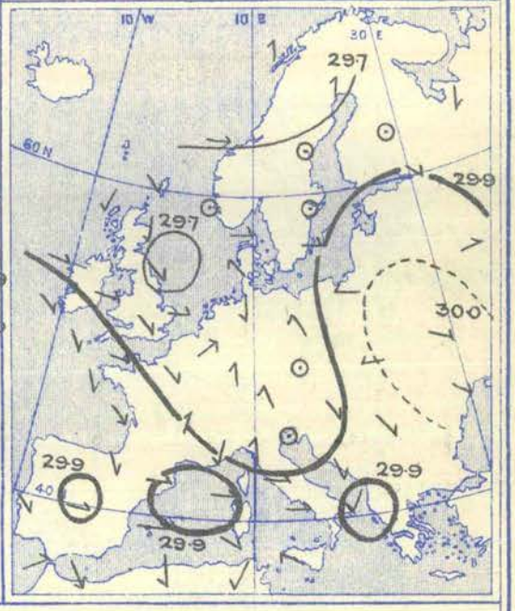


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. fine and bright in Algeria and in a few isolated parts of Europe, but cloudy or overcast generally. Rain falling at several stations in the United Kingdom, at Brest and Bodö, and a thunderstorm in progress at Florence. Fog prevalent in some parts of central Europe. Rain falling later in most parts of our Islands and at some French stations, as well as in the Netherlands, Germany and Scandinavia. Very heavy falls occurring at Turin and Florence.

Temperature changed little or fallen somewhat. Morning readings ranging from 84° at Barcelona, 80° at Malta, and above 70° in the south generally, to 55° at Moscow, 50° at Nairn and Stornaway, 48° at Archangel, and 45° at Bodö. Rising later to 97° at Tunis and Sfax, to above 90° at several other southern stations, and to above 80° in some parts of central Europe. Maxima only 68° in London and 55° at Aberdeen.

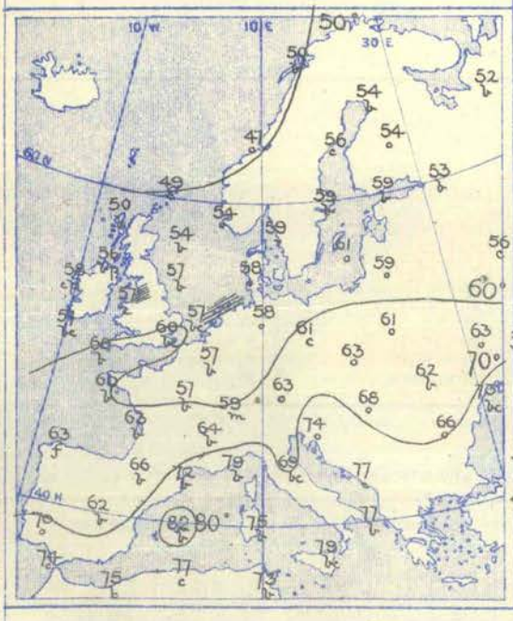
Wind at 8 a.m. showing several partial or complete cyclonic circulations of little strength, and a slight anticyclonic movement over the eastern parts of central Europe. No general change later, but some increase taking place in the force of the North-Westerly wind over the United Kingdom.

Barometer.—Pressure in morning very irregularly distributed, but nowhere high nor very low. An elongated and feeble anticyclone extending from the south of Russia across central Europe to Bavaria, a large low pressure system shown in the extreme north of Europe, some small secondaries over the United Kingdom, and a large shallow disturbance over Italy and its neighbourhood. Baric minimum over the north of our Islands moving eastwards increasing in depth, but no change occurring in the general distribution.

Friday, 12th August, 1904.

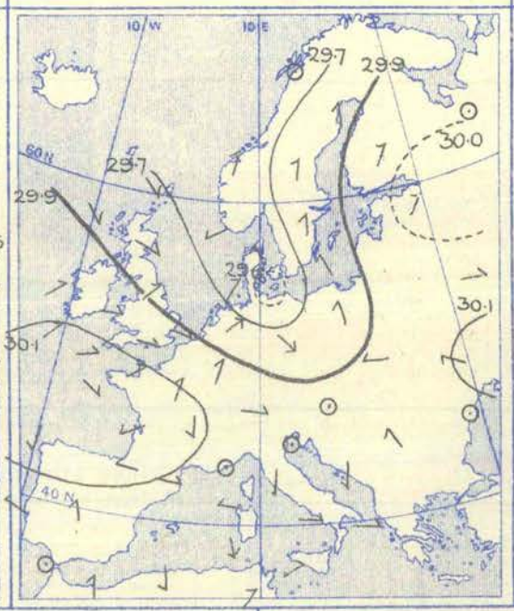
Temperature and Weather.

8 a.m.

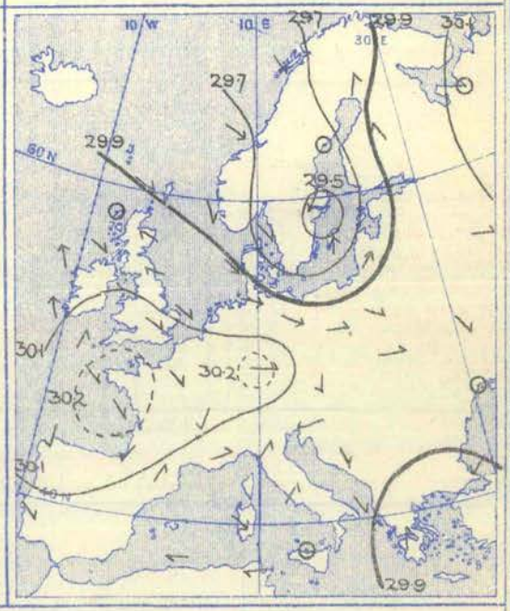


Barometer and Wind.

8 a.m.



6 p.m.



Weather at 8 a.m. fine and bright generally, but cloudy and showery in the north-west of Ireland, and dull, with rain in places, in Norway, Denmark, and on the shores of the Baltic. Rain falling later over many parts of northern Europe, and in Ireland and Scotland. Largest amounts, 0·9 in. at Karlstad and 1·3 in. at Blacksod Point.

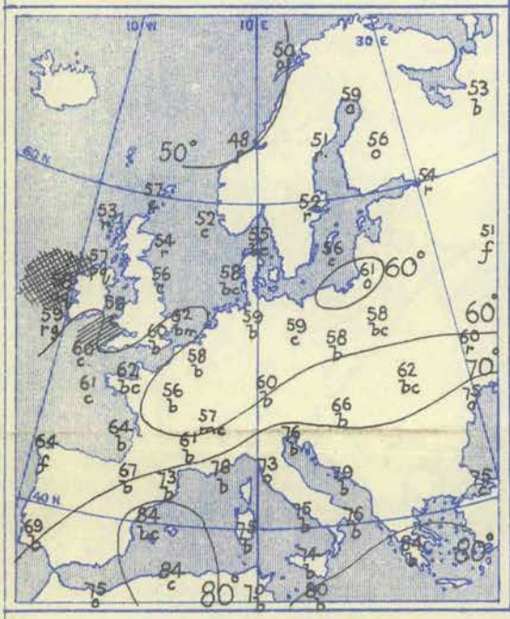
Temperature changed irregularly. Morning readings ranging from 82° at Palma and very little lower at several other stations in the south, to 68° at Buda-Pesth, 57° at Paris, 56° at Moscow, 52° at Archangel, 49° in the Shetlands, and 47° at Christiansund. Maxima during day below 70° at most of our own stations, but above 80° in some parts of central Europe, and above 90° in some southern localities. Highest values, 96° at Cagliari, 99° at Athens, and 104° at Aumale.

Wind at 8 a.m. anticyclonic both in the south-west and south-east of our area. An extensive but ill-defined cyclonic circulation prevailing around Denmark and Norway. North-Westerly gale setting in latter on the coast of Jutland, and wind backing to South-South-East and increasing in force on the west coast of Ireland.

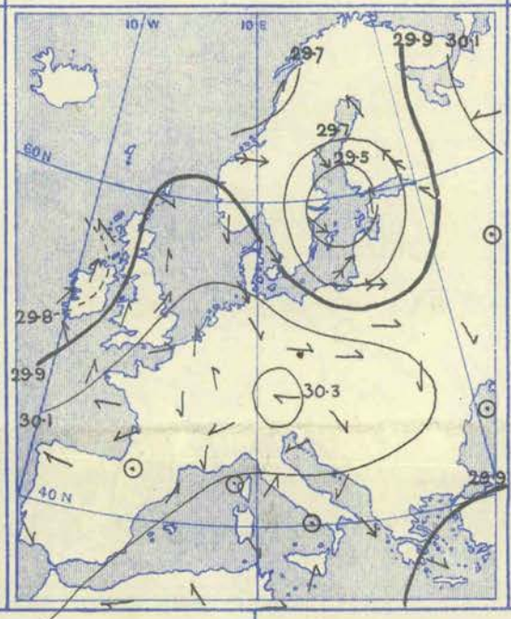
Barometer at 8 a.m. ranging from above 30·1 ins. in an anticyclone extending from the Atlantic across the Bay of Biscay and France, and from a similar value over Little Russia, to less than 29·6 ins. in a depression over Denmark. A depression of about the same depth apparently lying off the north-west of Norway. Anticyclone and depressions all travelling eastwards later, and another disturbance affecting our extreme west coasts.

Saturday, 13th August, 1904.

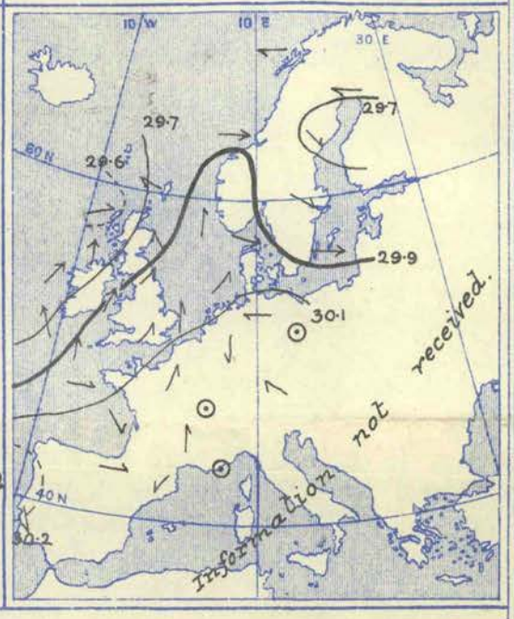
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine in the south-east of our Islands and in nearly all parts of southern and central Europe; cloudy or overcast elsewhere, with rain in several places. An inch of rain falling later at Valencia Island, 0·9 in. at Stornoway, and 0·5 in. at Wick. Smaller quantities measured in the north and north-west of Europe as a whole.

Temperature changed little and irregularly generally, but fallen in Sweden and central Europe. Morning readings ranging from 84° at Algiers and Athens, 82° at Cape Sicié, and 81° at Leghorn, to below 60° over the greater portion of our Islands, Germany, and the north of Europe, and to 50° or a little below on the north-west coast of Norway. Rising during day to 89° at Lyons, 88° at Nice, 76° at Brussels, 74° in London, 73° at Jersey, and to 70° at Liverpool.

Wind at 8 a.m. showing an extensive cyclonic circulation with gales from several directions around the Gulf of Bothnia, and a light anticyclonic movement over central Europe. Strong Southerly winds or gales prevailing along our own west and north-west coasts. Southerly current spreading eastwards over the whole of our Islands by evening.

Barometer at 8 a.m. ranging from above 30·0 ins. in an anticyclone centred over Bavaria to less than 29·8 ins. in a depression off our north-west coasts, and to below 29·5 ins. in a well-defined system over northern Europe. Latter disturbance travelling eastwards during day. Barometer continuing to fall briskly on our own west and north-west coasts, and gradients over our Islands increasing very considerably.

IV.—GENERAL NOTES, etc.

The distribution of barometric pressure was very unstable, both anticyclonic and cyclonic systems arriving from the Atlantic and moving in a general easterly direction, and frequently becoming much modified in form and intensity. Most of the depressions arrived over the more northern countries and the high pressure systems over the Bay of Biscay, France, and central Europe. At the close of the week large and deep minima were encroaching on our own western and north-western districts and causing a great increase in the force of the wind. The weather remained generally fair or fine in most of the southern and central regions, but in the northern and north-western countries there was a good deal of cloud and occasional rain. Thunderstorms were rather rare, but some were experienced in France, Switzerland, and the north of Italy. Temperature showed a general decrease except in the most southern regions, where 8 a.m. readings of 80° and maxima of 90° and above continued plentiful. On the 7th and 8th the thermometer at Madrid rose to above 105°, and on the 9th to 104°.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 188.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	13·3	- 14·4	12	- 13
STRATHPEFFER SPA	29·1	+ 1·4	27	+ 1
CRATHES	31·4	—	29	—
EDINBURGH	41·6	+ 8·8	39	+ 8
COCKLE PARK	39·0	—	37	—
NEWCASTLE-ON-TYNE	38·4	—	36	—
YORK	46·6	+ 12·3	44	+ 12
SKEGNESS	55·0	—	52	—
CROMER	61·3	—	59	—
LOWESTOFT	57·4	—	55	—
DUNMOW	64·8	—	63	—
SHEFFIELD	46·8	—	45	—
WORKSOP	38·9	+ 5·3	37	+ 5
THURCASTON	59·4	+ 21·8	57	+ 21
MARGATE	57·1	+ 14·4	55	+ 14
BROADSTAIRS	58·9	—	57	—
RAMSGATE	59·9	—	58	—
EASTBOURNE	68·7	+ 21·2	67	+ 21
BRIGHTON	73·2	+ 23·7	71	+ 23
WORTHING	66·3	—	64	—
BOGNOR	71·3†	—	69†	—
WESTBOURNE	64·5†	+ 16·9	63†	+ 16
VENTNOR HOSPITAL	71·2	+ 24·3	70	+ 24
BOURNEMOUTH	70·1	—	68	—
MARLBOROUGH	56·0	+ 15·2	54	+ 15
SOUTHPORT	55·1	—	53	—
RHYL	57·1	—	54	—
ABERDOVEY	68·0†	—	65†	—
TENBY	64·8	+ 20·3	63	+ 20
TORQUAY	57·8	+ 9·7	57	+ 10
NEWQUAY	62·6	+ 15·3	61	+ 15
GUERNSEY	53·8†	- 1·8	53†	- 2

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values below must be substituted for those which have already appeared.

REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
Twenty-Seventh Year, No. 29, p. 170	Tunbridge Wells	—	—	—	—	—	—	—	—	—	—	—	85·1	—	77	—
" " " "	Valencia	—	—	—	—	—	—	—	—	—	1·42	+0·51	—	—	—	—
" " " No. 30, p. 176	Southampton	—	—	—	—	—	—	—	—	—	—	—	26·7	-22·7	24	-21
" " " "	Birr Castle	—	—	—	—	—	—	—	—	—	0·89	+0·16	—	—	—	—
" " " No. 14, p. 80	Jersey	—	—	—	—	—	—	—	—	—	—	—	20·6	-21·6	22	-24
" " " No. 15, p. 86	Bawtry	—	—	56·0	—	47·3	+ 1·3	48	—	—	—	—	—	—	—	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 33. THIRTY-THIRD WEEK, ENDING SATURDAY, AUGUST 20TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 194.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	68	40	59·7	46·4	52·6	2 below	74	−14	0	0	1354	− 8	477	− 72
	1. SCOTLAND, EAST	71	36	61·9	46·8	53·9	2 below	83	−20	0	0	1510	−132	585	− 7
	2. ENGLAND, N.E.	72	41	62·6	50·4	56·1	2 below	99	−16	0	0	1843	+ 84	431	− 59
	3. ENGLAND, EAST	74	45	66·3	52·6	59·1	1 below	120	− 6	0	0	2087	+ 33	404	−131
	4. MIDLAND COUNTIES	71	42	64·0	50·4	56·8	2 below	104	−18	0	0	1954	− 99	474	− 73
	5. ENGLAND, SOUTH	74	41	66·7	52·5	59·1	2 below	120	−15	0	0	2133*	− 98	345	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	65	37	61·5	47·8	54·2	3 below	85	−20	0	0	1648	− 86	375	− 42
	7. ENGLAND, N.W.	68	39	62·0	51·1	56·3	3 below	100	−17	0	0	1806	− 81	386	− 13
	8. ENGLAND, S.W.	68	40	64·2	52·8	58·1	2 below	113	−10	0	0	2080	− 10	252	− 53
	9. IRELAND, NORTH	66	36	60·9	48·8	54·5	3 below	88	−20	0	0	1674*	−170	337	− 20
	10. IRELAND SOUTH	71	40	63·9	50·6	56·8	2 below	104	−13	0	0	1991	−110	232	− 24
	— CHANNEL ISLANDS	75	51	65·3	56·2	60·5	2 below	130	− 9	0	0	2374	+ 13	80	− 41

Rainfall.

	DISTRICTS. (See p. 194.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	11	2 more	151	+13	31·6	+ 3·9
	1. SCOTLAND, EAST	4	10	3 more	131	+12	18·4	+ 0·2
	2. ENGLAND, N.E.	4	10	4 more	112	+ 2	13·8	− 0·8
	3. ENGLAND, EAST	3	5	1 less	104	− 7	12·9	− 1·1
	4. MIDLAND COUNTIES	4	10	4 more	118	+12	16·4	+ 0·2
	5. ENGLAND, SOUTH	3	5	1 less	116	+13	16·7	+ 0·9
Principal Grazing Districts.	6. SCOTLAND, WEST	4	12	1 more	135	+12	31·4	+ 3·2
	7. ENGLAND, N.W.	6	12	4 more	130	+15	19·5	+ 0·3
	8. ENGLAND, S.W.	4	9	2 more	129	+13	24·6	+ 3·4
	9. IRELAND, NORTH	6	9	1 more	161	+20	25·6	+ 4·7
	10. IRELAND, SOUTH	4	7	2 less	145	+18	26·2	+ 2·6
	— CHANNEL ISLANDS	4	5	1 less	142	+23	22·1	+ 4·6

Bright Sunshine.

	DISTRICTS. (See p. 194.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	34	+ 8	32	+ 8	870	+ 21	28	+ 1
	1. SCOTLAND, EAST	37	+ 3	35	+ 3	890	− 81	29	− 3
	2. ENGLAND, N.E.	39	+ 6	38	+ 5	1005	− 59	33	− 2
	3. ENGLAND, EAST	38	− 5	38	− 5	1172	− 11	38	0
	4. MIDLAND COUNTIES	37	− 2	37	− 2	996	+ 1	32	0
	5. ENGLAND, SOUTH	45	+ 1	45	+ 1	1174	+ 17	38	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	42	+11	41	+10	946	− 69	31	− 2
	7. ENGLAND, N.W.	42	+11	41	+11	1037	+ 62	34	+ 2
	8. ENGLAND, S.W.	53	+10	53	+10	1123	− 83	37	− 3
	9. IRELAND, NORTH	38	+ 9	37	+ 9	887	− 45	29	− 2
	10. IRELAND, SOUTH	44	+10	44	+10	995	− 56	32	− 2
	— CHANNEL ISLANDS	66	+11	66	+12	1321	− 62	44	− 2

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this period was very unsettled over the Kingdom generally, but rain was less frequent in the east and south of England than elsewhere. Thunder was heard at Valencia and Holyhead on Sunday, and thunder and lightning were experienced in many parts of Scotland. On Wednesday sharp thunderstorms occurred over the northern half of England and at Dublin.

Temperature was again below the mean, the deficit ranging from 1° in England E. to 3° in England N.W., Scotland W. and Ireland N. The highest of the maxima were recorded early in the week, and ranged from 75° in the Channel Islands and 74° in England S. and E., to 66° in Ireland N., and to 65° in Scotland W. The lowest of the minima, which were registered either at the middle or end of the period, ranged from 36° in Scotland E. and Ireland N. to 45° in England E., and to 51° in the Channel Islands.

Rainfall exceeded the mean except in the Channel Islands, the east and south of England, and the south of Ireland. More than an inch fell at Plymouth, Leith, and at several stations in the north and east of England on Wednesday. The largest amounts were 1·3 ins. at Scarborough and Spurn Head, 1·4 ins. at Lincoln, and 1·9 ins. at Cheadle.

Bright Sunshine was more than the mean except in England E. and the Midland Counties. The percentage of the possible duration ranged from 66 in the Channel Islands and 53 in England S.W., to 37 in the Midland Counties and Ireland N., and to 32 in Scotland N.

Barometer and Wind. A series of depressions, travelling in a general easterly direction, passed across various parts of the United Kingdom, and, as some of the systems, especially at the beginning of the week, were rather deep, their passage was attended by strong Southerly to Westerly or North-Westerly winds. The disturbance of Monday had the steepest gradients, and the North-Westerly winds in its rear blew a slight gale on some parts of our western coasts.

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II.—DATA from which the SUMMARY on page 193 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	60	40	55·3	45·7	50·2	– 2·8	57	0	3	0·23	– 0·50	*	*	*	*
	Stornoway	65	41	59·3	47·1	52·8	– 1·5	76	0	6	1·42	+ 0·59	34·3	+ 4·9	33	+ 5
	Wick	68	44	60·1	46·4	52·8	– 1·8	76	0	6	0·49	– 0·10	*	*	*	*
	Lairg	68	41	62·1	44·0	52·5	– 1·9	74	0	6	0·60	– 0·03	*	*	*	*
	Glencarron	63	43	58·7	45·7	51·8	– 2·9	69	0	6	2·00	+ 0·47	*	*	*	*
	Fort Augustus	65	43	61·6	47·0	53·9	– 2·6	83	0	5	0·99	+ 0·24	28·8	+ 8·8	28	+ 9
	Fort William	64	45	60·6	48·8	54·4	– 2·5	87	0	4	1·84	+ 0·50	41·8	+ 18·1	40	+ 17
1. SCOTLAND, E.	Nairn	67	43	62·7	47·0	54·4	– 1·9	87	0	4	0·87	+ 0·26	*	*	*	*
	Aberdeen	69	44	62·0	48·3	54·7	– 1·6	89	0	2	0·16	– 0·51	40·5	+ 6·2	39	+ 6
	Braemar	62	36	57·8	44·3	50·7	– 2·5	61	0	5	1·25	+ 0·41	*	*	*	*
	Ochtertyre	68	39	64·0	45·1	54·0	– 3·0	84	0	5	0·98	+ 0·14	*	*	*	*
	Leith	71	45	64·7	49·7	56·8	– 1·4	104	0	5	1·44	+ 0·84	*	*	*	*
	Marchmont	66	43	60·4	46·3	52·9	– 3·0	76	0	4	1·11	+ 0·34	38·0	+ 3·4	37	+ 3
2. ENGLAND, N.E.	Alnwick Castle	69	43	61·7	48·7	54·8	– 2·0	90	0	4	1·19	+ 0·49	*	*	*	*
	Durham	68	41	61·6	48·7	54·8	– 3·2	90	0	3	0·41	– 0·22	39·2	+ 6·1	38	+ 6
	Shields	66	43	60·7	49·1	54·6	– 2·8	88	0	4	0·46	– 0·17	*	*	*	*
	Scarborough	72	47	63·4	51·1	56·9	– 1·5	104	0	3	1·36	+ 0·75	40·2	—	39	—
	Spurn Head	69	50	62·6	52·9	57·5	– 1·8	109	0	2	1·37	+ 0·95	*	*	*	*
	Lincoln	72	46	63·9	50·8	57·0	– 2·1	105	0	5	1·50	+ 0·95	*	*	*	*
	Fulbeck (Lincolnshire)	71	46	64·3	51·2	57·4	– 1·7	108	0	5	0·84	+ 0·28	40·7	—	40	—
3. ENGLAND, E.	Hillington	68	47	64·8	50·8	57·4	– 2·5	108	0	3	0·85	+ 0·22	34·7	– 5·2	34	– 5
	Yarmouth	72	50	64·4	53·7	58·7	– 1·6	117	0	2	0·47	– 0·03	*	*	*	*
	Geldeston	73	47	66·5	51·7	58·7	– 1·4	117	0	5	0·57	+ 0·13	37·2	– 5·5	37	– 6
	Cambridge	69	46	66·8	52·2	59·1	– 1·9	120	0	3	0·31	– 0·23	39·2	– 2·8	39	– 3
	Felixstowe	73	46	67·3	52·8	59·6	– 0·7	123	0	1	0·29	—	37·0†	—	37†	—
	Clacton-on-Sea	73	47	67·4	54·1	60·4	– 0·2	129	0	2	0·30	—	45·4†	—	45†	—
	Rothamsted	68	45	65·1	50·9	57·6	– 2·1	109	0	4	0·49	– 0·06	34·4	– 8·3	34	– 8
	Shoeburyness	74	48	68·3	54·4	60·9	– 0·2	132	0	3	0·32	– 0·08	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	66	43	61·0	48·1	54·2	– 3·4	85	0	4	1·40	+ 0·74	40·4	—	40	—
	Bawtry (Hesley Hall)	70	—	64·9	—	—	—	—	—	3	1·33	+ 0·78	*	*	*	*
	Nottingham	71	46	64·7	50·9	57·4	– 2·4	108	0	5	1·10	+ 0·53	36·6	—	36	—
	Colly Weston (Stamford)	68	46	65·3	50·6	57·5	– 3·3	109	0	5	0·59	+ 0·05	*	*	*	*
	Cheadle	68	44	62·2	49·4	55·4	– 2·0	94	0	6	2·25	+ 1·47	*	*	*	*
	Birmingham (Edgbaston)	69	46	63·6	51·4	57·1	– 1·9	106	0	5	0·44	– 0·18	37·5	—	37	—
	Shrewsbury	70	46	64·3	50·9	57·2	– 1·9	106	0	5	1·50	—	*	*	*	*
	Hereford	68	43	65·7	51·4	58·1	– 1·8	113	0	4	0·16	– 0·38	*	*	*	*
	Cirencester	65	42	64·3	48·2	55·8	– 2·6	97	0	3	0·76	+ 0·07	39·7	– 1·4	40	– 1
	Oxford	66	48	65·3	52·7	58·6	– 2·1	116	0	3	0·39	– 0·14	36·7	– 5·1	37	– 5
5. ENGLAND, S.	London	74	46	68·7	52·4	60·1	– 1·9	127	0	3	0·36	– 0·15	37·8‡	– 1·1‡	38‡	– 1‡
	Wisley (Surrey)	71	44	67·6	51·5	59·1	– 2·8	120	0	3	0·40	—	41·9	—	42	—
	Swarraton (Alresford)	68	41	65·1	49·4	56·8	– 2·2	104	0	4	0·63	0·00	*	*	*	*
	Tunbridge Wells	70	44	67·3	49·7	58·0	– 2·5	112	0	3	0·28	—	47·9	—	48	—
	Dungeness	69	47	67·4	54·6	60·6	– 1·2	130	0	3	0·18	– 0·24	49·8	—	50	—
	Hastings (St. Leonards)	70	50	66·4	53·1	59·4	– 2·0	122	0	2	0·27	– 0·27	51·4	+ 3·9	51	+ 4
	Southampton	72	47	68·5	53·6	60·6	– 1·3	130	0	5	0·71	+ 0·11	47·8	+ 1·1	48	+ 1
	Portland Bill	65	54	64·3	56·6	60·2	– 0·8	127	0	3	0·79	—	*	*	*	*
	Shaftesbury	66	46	64·6	51·2	57·5	– 2·3	109	0	4	0·71	+ 0·06	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	64	44	62·1	48·6	55·0	– 2·0	91	0	4	1·40	+ 0·14	*	*	*	*
	Glasgow	63	43	60·4	48·5	54·1	– 2·6	85	0	3	0·56	– 0·34	37·6	+ 8·8	37	+ 9
	Cally	64	37	61·5	45·1	52·8	– 3·7	76	0	4	1·59	+ 0·55	*	*	*	*
	Aspatria	65	42	61·2	47·5	53·9	– 2·9	83	0	4	1·55	—	39·0	—	38	—
	Douglas (Isle of Man)	65	43	62·1	49·1	55·2	– 1·9	92	0	6	0·72	– 0·16	50·7	+ 12·2	50	+ 12
7. ENGLAND, N.W.	Newton Rigg	65	39	60·7	46·5	53·2	– 3·3	78	0	4	1·51	—	38·1	—	37	—
	Stonyhurst	65	46	59·9	50·0	54·7	– 3·3	89	0	6	1·77	+ 0·61	39·8	+ 6·6	39	+ 7
	Blackpool	67	47	62·5	51·5	56·7	– 2·5	103	0	6	0·64	– 0·13	47·4	+ 12·7	47	+ 13
	Manchester (Prestwich)	68	46	62·3	50·2	55·9	– 2·3	97	0	6	1·24	+ 0·40	35·4	—	35	—
	Liverpool Obsy. (Bidston)	68	50	62·1	52·6	57·1	– 2·6	106	0	5	1·12	+ 0·46	44·0	—	43	—
	Chester (Hawarden Bridge)	68	49	63·1	52·7	57·6	– 2·3	109	0	6	1·13	—	*	*	*	*
	Llandudno	66	52	63·6	53·5	58·3	– 1·8	114	0	5	0·83	+ 0·19	50·6	+ 14·1	50	+ 14
	Holyhead	64	50	62·0	52·9	57·2	– 1·9	106	0	6	0·89	+ 0·22	*	*	*	*
	Bettws-y-Coed	65	43	62·1	49·9	55·6	– 3·6	95	0	7	1·44	—	32·1	—	32	—
8. ENGLAND, S.W.	Pembroke	64	50	61·7	55·4	58·4	– 0·9	115	0	4	0·40	– 0·25	57·9	+ 14·3	58	+ 14
	Clifton	67	50	63·9	54·2	58·8	– 1·7	118	0	3	1·15	+ 0·38	*	*	*	*
	Bath	68	45	65·4	51·4	58·0	– 3·1	112	0	4	0·67	+ 0·04	42·3	—	42	—
	Arlington (N. Devon)	64	45	62·9	51·0	56·6	– 2·0	102	0	5	1·25	+ 0·11	*	*	*	*
	Cullompton	68	40	66·7	50·3	58·0	– 1·8	112	0	4	0·95	+ 0·31	50·1	+ 8·6	50	+ 9
	Falmouth	65	52	63·5	54·1	58·5	– 1·7	116	0	3	0·86	+ 0·06	56·7	+ 8·5	57	+ 9
	Plymouth	67	47	65·1	53·1	58·7	– 2·4	117	0	4	1·29	+ 0·64	56·1	+ 11·6	56	+ 12
9. IRELAND, N.	Malin Head	63	43	59·6	50·7	54·9	– 2·6	90	0	6	0·84	+ 0·10	*	*	*	*
	Edenfel (Omagh)	63	40	60·0	47·7	53·5	– 2·7	81	0	6	1·31	+ 0·48	*	*	*	*
	Blacksod Point	62	45	60·7	49·9	55·0	– 3·1	91	0	6	0·97	– 0·16	*	*	*	*
	Markree Castle	64	36	61·5	46·5	53·6	– 3·1	81	0	7	1·02	+ 0·09	39·0	+ 9·8	38	+ 10
	Armagh	66	41	62·2	47·2	54·3	– 3·0	86	0	6	0·59	– 0·15	36·3	+ 8·0	36	+ 8
	Donaghadee	66	44	61·1	50·7	55·6	– 1·7	95	0	6	0·81	+ 0·06	*	*	*	*
10. IRELAND, S.	Dublin	71	45	65·9	51·1	58·1	– 1·2	113	0	5	0·87	+ 0·18	47·8	+ 11·2	47	+ 11
	Birr Castle	65	43	64·0	50·1	56·6	– 1·5	102	0	6	0·65	– 0·20	41·8	+ 10·4	41	+ 10
	Kilkenny	66	40	64·0	49·7	56·4	– 2·6	101	0	4	0·69	– 0·10	*	*	*	*
	Waterford	67	45	65·0	49·6	56·8	– 2·1	104	0	2	0·33	– 0·53	*	*	*	*
	Roche's Point	64	44	62·6	51·9	56·9	– 2·8	104	0	3	0·37	– 0·51	*	*	*	*
	Valencia	63	45	61·3	51·1	55·9	– 3·2	97	0	5	0·58	– 0·52	42·1	+ 7·8	42	+ 8
	Killarney	68	43	64·6	50·6	57·2	– 1·6	106	0	6	1·28	+ 0·19	*	*	*	*
	Foynes	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	55	62·9	56·3	59·4	– 1·7	122	0	5	0·65	+ 0·10	56·9	+ 4·6	57	+ 5
	Jersey	75	51	67·7	56·1	61·6	– 1·3	137	0	2	0·30	– 0·25	71·7	+ 16·5	72	+ 17

Stations Marked ℳ are in connection with the Royal Meteorological Society, and those marked 𝒮 with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

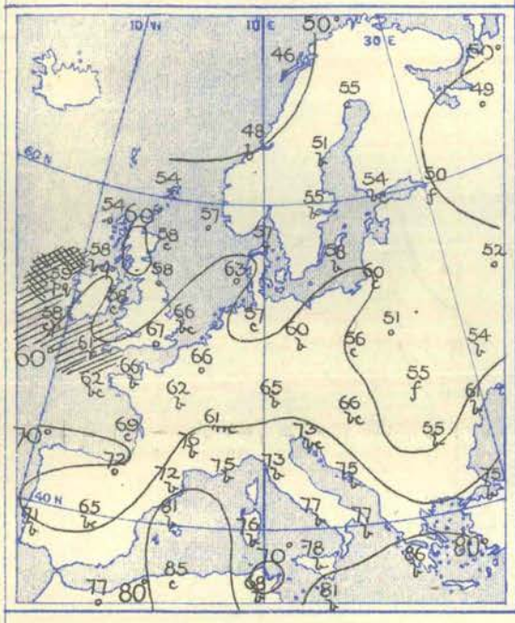
† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

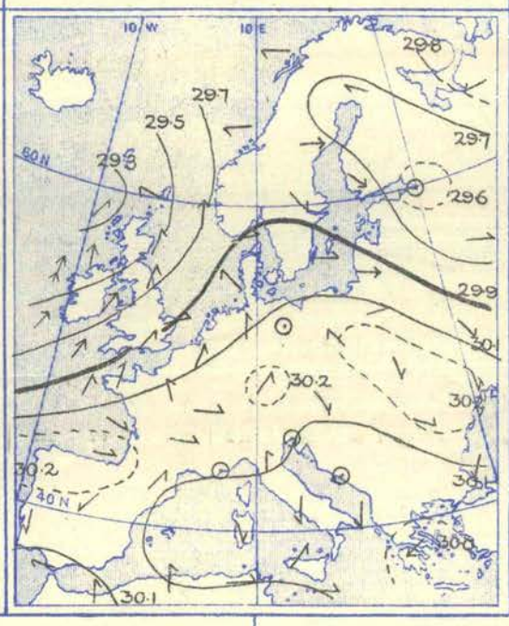
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 14th August, 1904.

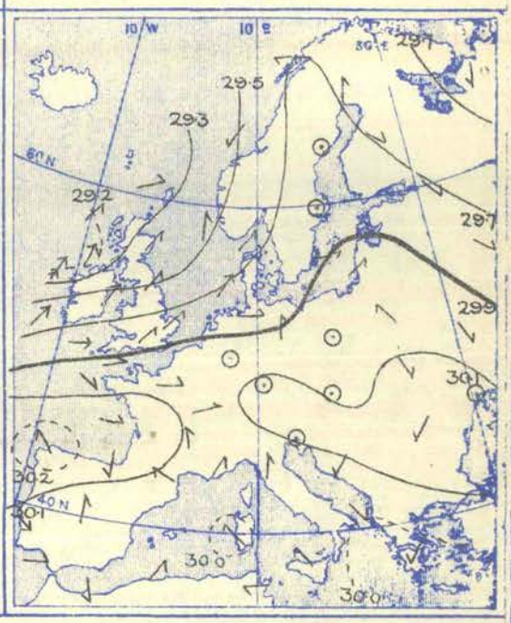
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. very unsettled over the United Kingdom and north-western Europe generally, with rain in several places. Fine or fair in most other regions, but rain falling at San Fernando. Rain experienced later in almost all parts of the United Kingdom and the north of Europe, and thunder occurring at Valencia and Holyhead. Largest rainfalls, 0·7 in. at Oxö and 0·9 in. at Knopio.

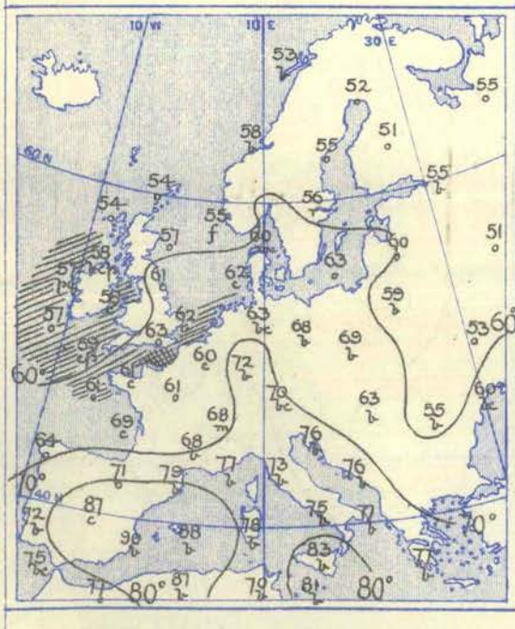
Temperature risen except in the far north. Morning readings ranging from 90° at Palma, 86° at Patras, 85° at Algiers, and 81° at Cape Sicié, to 67° in London, 65° at Leith, 52° at Moscow, 49° at Archangel, and to 46° at Bodö. Rising later to 74° at Margate and in London, above 80° in many parts of central Europe, and above 90° in many southern regions. Highest values, 93° at Madrid and Palma, 98° at Lyons, and 102° at Algiers.

Wind in morning strong from the South-Westward to Southward over these Islands, with a gale at Blacksod Point. Light and variable over the Mediterranean regions; South-Westerly to Westerly in most of the central and northern countries, but Easterly in the extreme north. Westerly winds strong to a gale over the Gulf of Finland. Latter subsiding during day, but force of South-Westerly wind increasing over the United Kingdom.

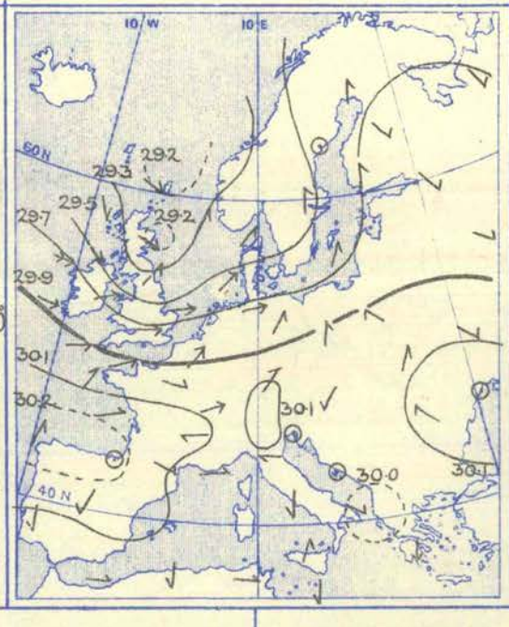
Barometer at 8 a.m. ranging from 30·1 ins. to 30·2 ins. in a large high pressure area embracing nearly all the central and southern countries, to less than 29·6 ins. in a depression near St. Petersburg, and to 29·3 ins. and less in a disturbance off our north-west coasts. Other low pressure systems approaching our west and north-west coasts by evening, and gradients over our Islands increasing in depth.

Monday, 15th August, 1904.

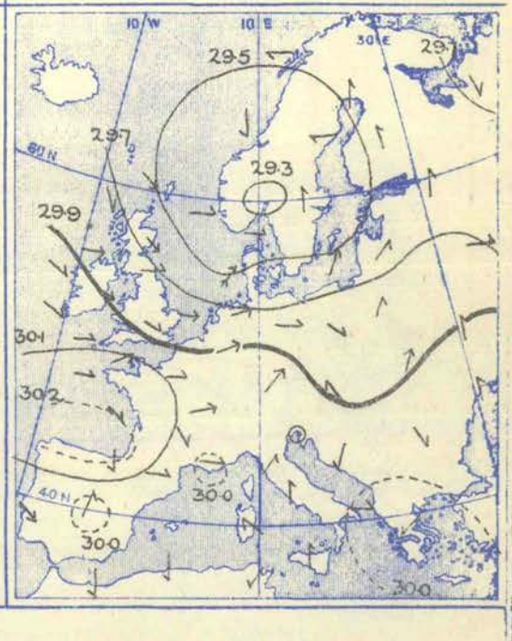
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine in nearly all parts of central and southern Europe; cloudy or overcast in most other regions, with showers or steady rain in places. Rain experienced later at most stations in the northern countries—largest amounts, 0·4 in. at Cuxhaven (accompanied by thunder and lighting), 0·5 ins. at Helsingfors, and 1·3 ins. at Hernösand.

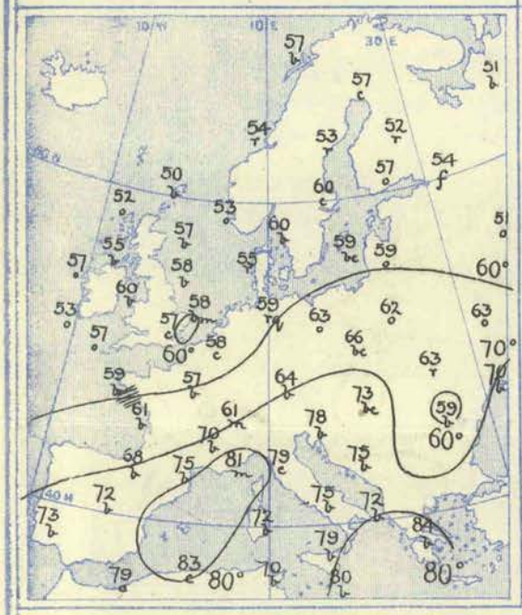
Temperature risen over Germany and Scandinavia. Morning readings highest, 90° at Alicante, 87° at Algiers, 86° at Barcelona, 79° at Leghorn, and several degrees above 70° in the south generally. Lowest, 51° at Moscow and Knopio, 52° at Haparanda, 54° at some of our own northern stations, 55° at Kharkov and Hermanstadt, and 56° at Nicolaieff. Rising during day to 99° at Tunis and Algiers, 97° at Madrid and Cette, 94° at Rome, and 91° at Vienna. Highest reading in our Islands, 73° at Clacton-on-Sea.

Wind at 8 a.m. strong to a slight gale from the Westward over Ireland and England, fresh or strong from South-West over the Netherlands and Denmark, and moderate from the Southward over Scandinavia. Light and variable or anticyclonic airs prevailing over the Mediterranean and southern regions. No material change later; a South-Westerly gale blowing at Fanö.

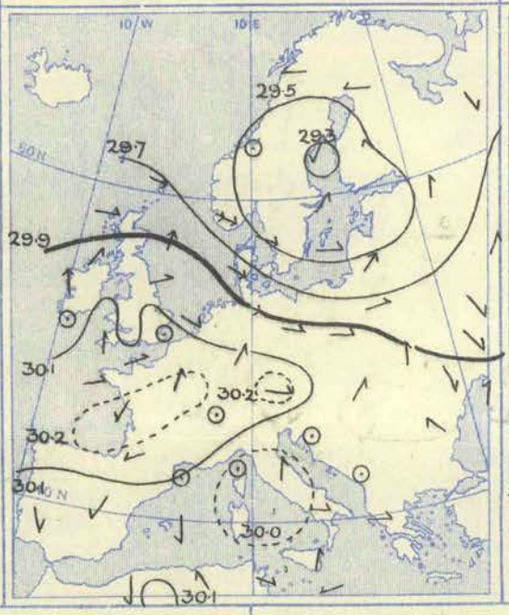
Barometer at 8 a.m. ranging from 30·2 ins. and upwards over the southern part of the Bay of Biscay and above 30·1 ins. over the Black Sea and its European vicinity, to 29·2 ins. in a small minimum near Aberdeen, and to a similar level in a larger depression off the west of Norway. Disturbances travelling briskly eastwards by evening, and a decided increase of pressure taking place over Scotland.

Tuesday, 16th August, 1904.

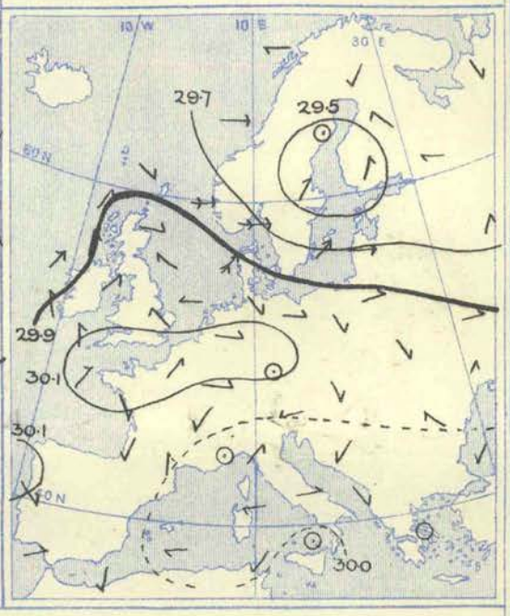
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. cloudy or overcast over our area as a whole, but fine and bright in most parts of England and Wales, France, the west of Germany, and at some stations in southern Europe. Rain falling later in most parts of our Islands, Norway, Sweden, and Finland, and very small amounts at some German stations.

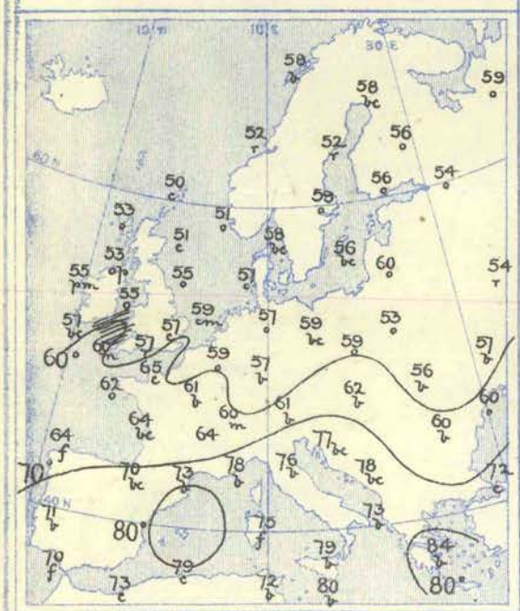
Temperature risen in the far north of Scandinavia, fallen in most other regions. Morning readings ranging from 39° at Barcelona, 84° at Sfax and Patras, and about 80° at several other southern stations, to between 60° and 70° over central Europe, 58° at Haparanda and Bodö, 51° at Moscow, and 50° at Sumburgh Head. Rising later to 70° in London, 75° at Paris, above 80° over southern Europe generally, and to above 90° in places. Highest readings, 104° at Algiers and 106° at Sfax.

Wind at 8 a.m. showing a well-defined cyclonic circulation over the northern countries of the Continent; Easterly winds in the far north light, but those from North-West over Denmark and the south of Norway strong to a gale. Light anticyclonic airs prevailing in most other regions, but a feeble cyclonic movement around Corsica and Sardinia. Wind backing to the Southward along our western coasts by evening and increasing in force. Gales continuing on the eastern shores of the North Sea.

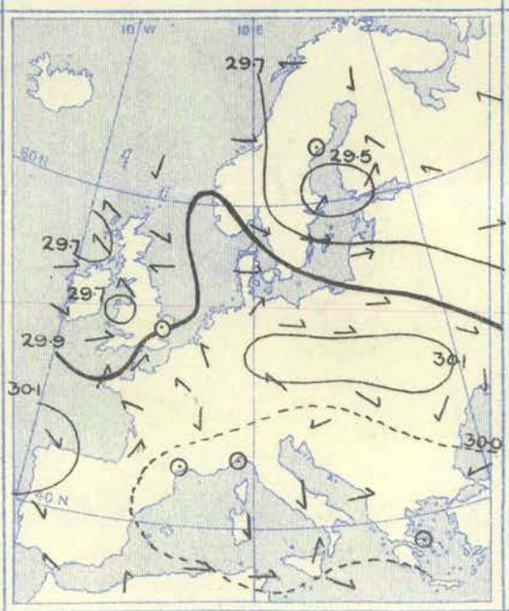
Barometer at 8 a.m. ranging from above 30·2 ins. to 30·1 ins. in an anticyclonic system covering the Bay of Biscay, the south of our Islands, France, and South Germany, to less than 29·3 ins. in a depression over the Gulf of Bothnia. A new depression approaching our western coasts by evening, but that over the Gulf of Bothnia becoming less deep. Anticyclone travelling eastwards to central Europe.

Wednesday, 17th August, 1904.

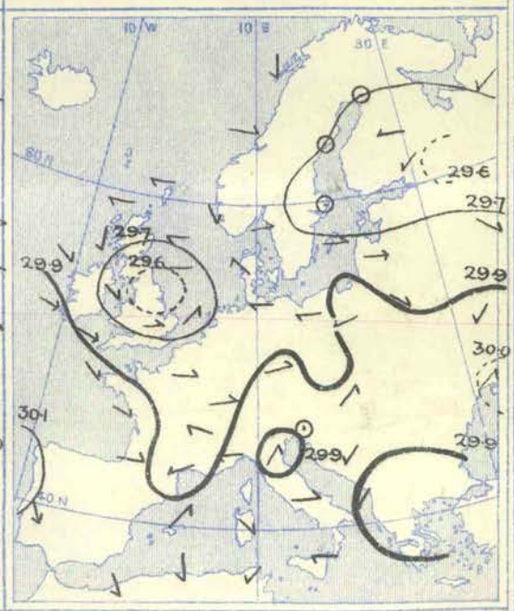
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. fine and bright in most parts of France, central and southern Europe, and also in the north of Scandinavia; cloudy or dull elsewhere, with rain at Hernösand, Christiansund, and in most parts of England and Ireland. Rain falling very generally later over the north-western and northern countries, accompanied by thunder and lightning in France and central England. Largest amounts, 2·0 ins. at Flushing, 1·3 ins. at Spurn Head, 1·1 ins. at Leith, 1·6 ins. at Aberystwyth, 1·9 ins. at Cheadle, 1·5 ins. at Lyons, and 1·0 in. at Christiansund.

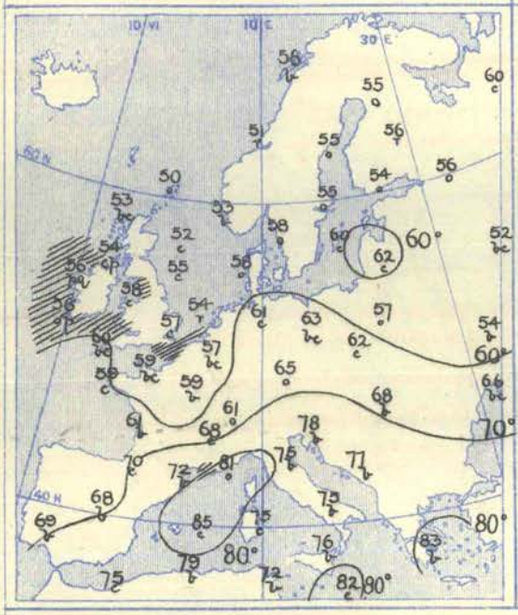
Temperature risen in the extreme north of Europe, fallen in nearly all other regions. Morning readings ranging from 86° at Barcelona, 84° at Athens, and above 80° at many other southern stations. Lowest, 50° at Sumburgh Head, 51° at Aberdeen, 52° at Liverpool, 54° at St. Petersburg and Moscow, and 56° at Lemberg and Prague. Maxima during day below 65° at most of our own stations, but above 80° over central and southern Europe, and above 90° in several places. Highest values, 95° at Athens, 97° at Lyons, 99° at Madrid, and 102° at Toulouse.

Wind in morning light and anticyclonic over the central countries, but showing partial or complete cyclonic circulations over the United Kingdom and the northern parts of the Continent. Little force as a whole, but Westerly current blowing strongly over the Baltic, and that from South-West with the force of a moderate gale at St. Ann's Head. Wind increasing considerably in strength over our Islands by evening.

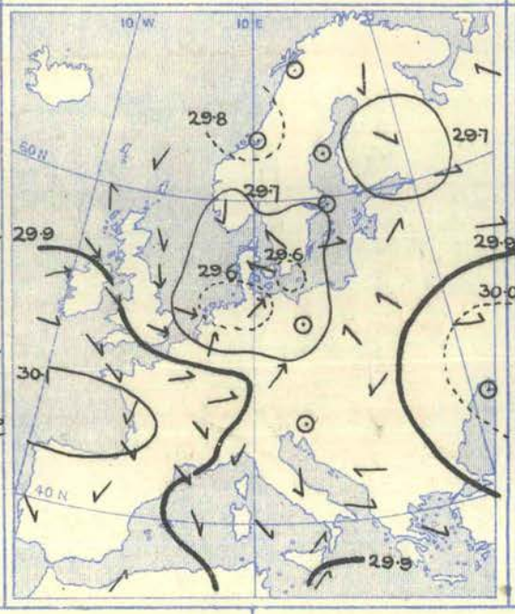
Barometer at 8 a.m. ranging from above 30·1 ins. in an anticyclone over central Europe, to 29·7 ins. and less in two separate minima within a complex depression over the western portion of the United Kingdom, and to below 29·5 ins. in a disturbance over the southern part of the Gulf of Bothnia. Depressions moving eastwards during day, and that over these Islands becoming less complex.

Thursday, 18th August, 1904.

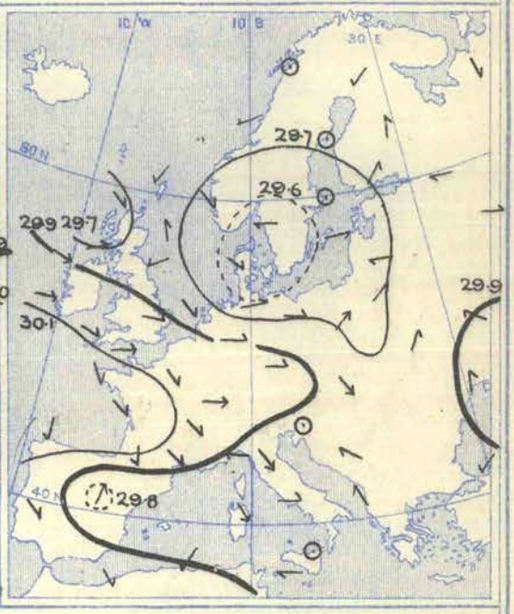
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning cloudy or overcast generally, but fine and bright in most parts of southern Europe and the southern half of Russia. Showery in Ireland, and rainy at Yarmouth, Christiansund, in Denmark, and North Germany. Rain experienced later in many parts of the United Kingdom and northern Europe, as well as in Italy and Austria-Hungary—largest falls, 1·0 in. at Cracow and 1·3 in. at Vienna.

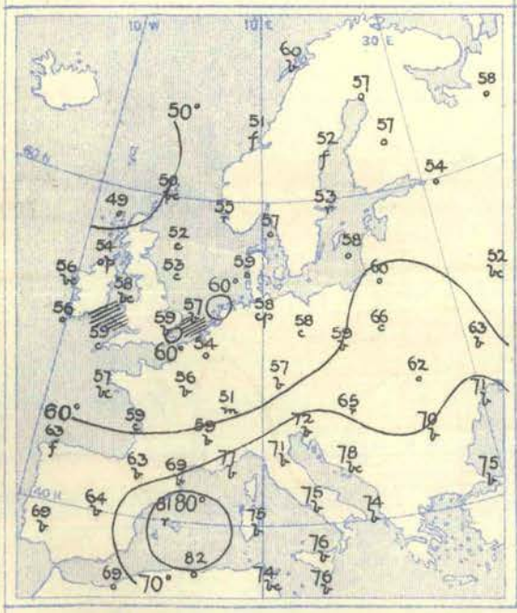
Temperature risen over central Europe, changed little elsewhere. Morning readings highest, 85° at Palma, 83° at Athens, 82° at Leghorn, Malta, and Sfax, and only a little below 80° at many other southern stations. Lowest, 50° at Sumburgh Head, 51° at Christiansund, 52° at Moscow and Aberdeen, 54° or 55° on the east coast of England and at Liverpool, and 56° at Le Mans. Rising subsequently to 70° at Brighton, but remaining below 65° in most parts of our Islands. Maxima above 80° at most southern stations, and above 90° in places. Highest values, 97° at Madrid and Cagliari.

Wind at 8 a.m. light and anticyclonic over the south-west and south-east of Europe, but showing cyclonic circulations elsewhere. North-Westerly wind strong or fresh over England and the Channel, and South-Easterly current blowing a moderate gale at Copenhagen. Wind backing on our north-west coasts later and increasing to a moderate gale. Little change elsewhere.

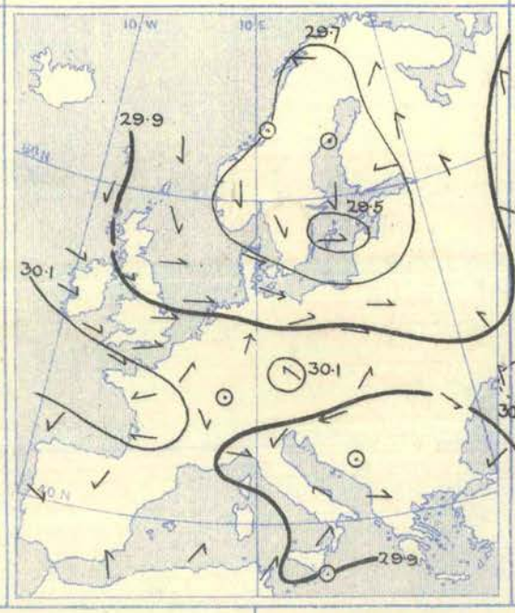
Barometer in morning ranging from above 30·1 ins. in an anticyclone over the Bay of Biscay and above 30·0 ins. in a similar system over Little Russia, to 29·7 ins. and less in a depression over Finland, and to 29·6 ins. and less in a disturbance having its centre off the north of Holland. Another depression appearing off our north-west coasts later, and subsequently moving eastwards to the North Sea and becoming less deep. Southern anticyclone spreading eastwards.

Friday, 19th August, 1904.

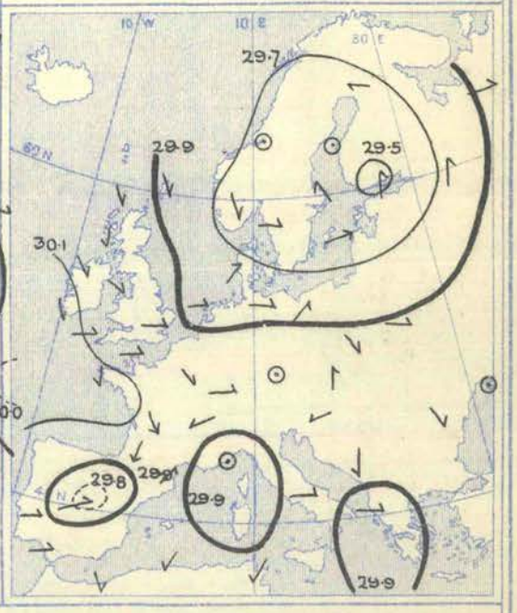
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. cloudy or overcast as a whole, with rain in the south of Scandinavia and at Buda-Pesth, and showers at a few of our own north-western stations. Fine and bright in most parts of southern Europe, but rainy at Barcelona, and foggy at Corunna. Continuing fine in the southern and central regions, but rain falling in many parts of northern Europe and in a few parts of our Islands.

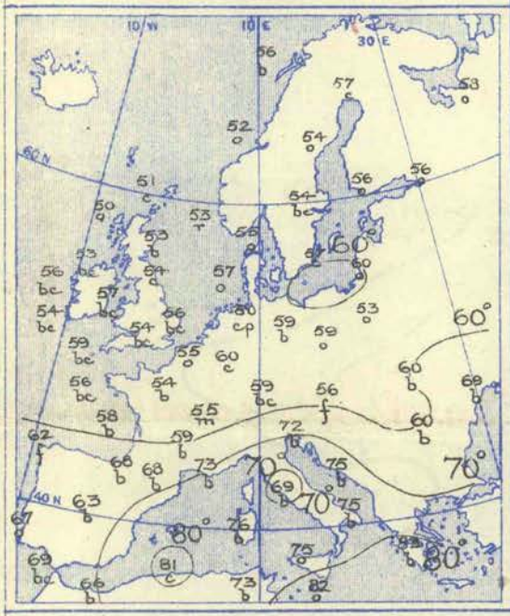
Temperature fallen several degrees over France, Italy, and central Europe. Morning readings highest, 82° at Sfax and Algiers, 81° at Malta and Barcelona, and between 70° and 80° in the south generally. Lowest, 49° at Stornoway, 51° at Liverpool and Christiansund, and 52° at Moscow and Hernösand. As high as 60° at Bodö and 58° at Archangel. Rising later to 67° at some of our own southern stations, to 68° at Haparanda, to above 80° in the most southern countries generally, to 97° at Madrid, and to 104° at Sfax.

Wind at 8 a.m. circulating cyclonically around the Baltic; Easterly current of little force, but that from the Westward strong or fresh over Denmark and North Germany. A gentle anticyclonic movement shown around the Bay of Biscay. Some decrease in force taking place in the Westerly current during day, but no other important change.

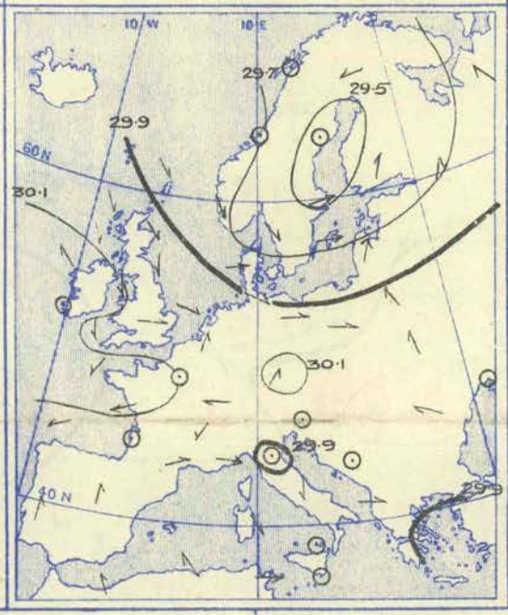
Barometer at 8 a.m. ranging from above 30·1 ins. over the Bay of Biscay to below 29·5 ins. in a depression situated over Gothland and the adjacent portion of Sweden. Northern disturbance travelling north-eastwards later, and a well-defined minimum forming over Spain, but no change occurring in the general distribution.

Saturday, 20th August, 1904.

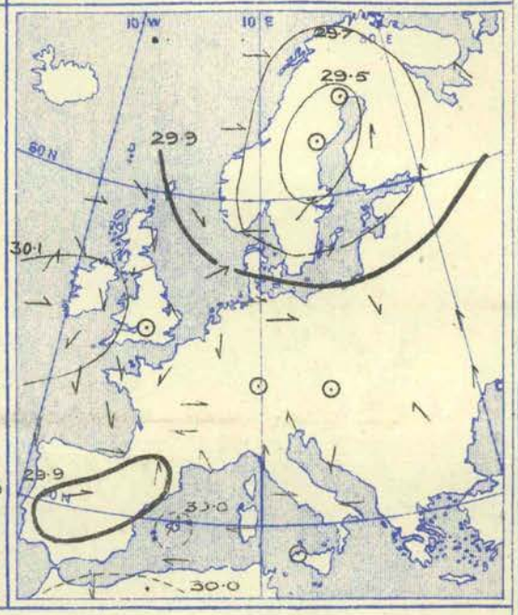
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine over our area generally, but dull over Holland, Denmark, Scandinavia, and the north of Russia, with rain at several stations. Rain also reported from Barcelona, more than half-inch falling at the latter station during day, about as much in Finland, and smaller quantities over Scandinavia, at Cuxhaven, and on our own northern and north-western coasts, thunder and lightning occurring in various parts of France.

Temperature fallen as a whole, but changes rather irregular. Readings at 8 a.m., lowest 49° at Limoges, 50° at Stornaway and Nairn, 51° at Nottingham, 52° at Christiansund, 53° at Warsaw, 54° at Paris and Aix-la-Chapelle, and 56° at Buda-Pesth. Highest, 83° at Athens, 79° at Leghorn and Barcelona, 73° in the Riviera, 72° at Trieste, 68° at Biarritz, and 66° at Swinemünde. Rising later to 68° in London and Berlin, 72° at Paris and Munich, and to above 80° in the southern regions. Highest maximum, 91° at Cagliari.

Wind in morning light and anti-cyclonic throughout our Islands, and the whole of central Europe. A cyclonic circulation prevailing around the Gulf of Bothnia; Westerly wind blowing a fresh gale at Fanö. Little change of a general character later, but gale in Denmark subsiding.

Barometer at 8 a.m. ranging from above 30·1 ins. to 30·0 ins. in a large area extending from the Atlantic and the United Kingdom across central Europe to the south of Russia, to less than 29·5 ins. in a depression over the Gulf of Bothnia and its vicinity. Scarcely any change during day except the formation of a shallow low pressure area over Spain.

IV.—GENERAL NOTES, etc.

The distribution of pressure underwent frequent changes but there was generally an anti-cyclonic area embracing the Bay of Biscay, and extending across France to central Europe or even as far east as the south of Russia. Depressions were numerous over the northern countries; some of them travelled directly across the United Kingdom and were of considerable depth, causing a good deal of wind from between South and West, both on our own coasts and to the eastward of the North Sea. These systems brought much rain to nearly all the northern localities, but in the centre of Europe the weather continued dry until towards the end of the week when more than an inch fell at Vienna, and nearly as much at Cracow. Some heavy falls of rain were also experienced at about the same time over the northern parts of Italy and smaller amounts as far south as Rome. Temperature remained high in the extreme south, but over Europe as a whole a reduction was noticed. Maxima of 70° were very rare over the United Kingdom, even at the most southern and south-eastern stations; on some days the thermometer did not rise much above 60° over the Kingdom generally, and failed to touch 60° on some parts of our northern coasts.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 194.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	25·2	− 1·5	24	− 1	SHEFFIELD	37·3	—	37	—	WESTBOURNE	40·0†	+ 6·7	40†	− 7
STRATHPEFFER SPA	38·3	+ 11·0	37	+ 11	WORKSOP	33·0	+ 0·2	33	—	VENTNOR HOSPITAL	48·9	+ 2·2	49	+ 2
CRATHES	37·3	—	36	—	THURCASTON	35·0	− 1·7	35	− 2	BOURNEMOUTH	49·1	—	49	—
EDINBURGH	30·9	− 1·7	30	− 2	MARGATE	45·1	+ 2·8	45	+ 3	MARLBOROUGH	35·6	− 4·8	36	− 5
COCKLE PARK	40·6	—	39	—	BROADSTAIRS	47·8	—	48	—	SOUTHPORT	48·8	—	48	—
NEWCASTLE-on-TYNE	37·0	—	36	—	RAMSGATE	44·7	—	45	—	RHYL	51·3	—	51	—
YORK	38·3	+ 4·9	38	+ 5	EASTBOURNE	50·0	+ 3·6	50	+ 4	ABERDOVEY	45·1†	—	45†	—
SKEGNESS	34·0	—	34	—	BRIGHTON	43·6	− 5·2	44	− 5	TENBY	52·9	+ 9·2	53	+ 9
CROMER	42·8	—	42	—	WORTHING	45·6	—	46	—	TORQUAY	54·0	+ 6·7	54	+ 7
LOWESTOFT	—	—	—	—	BOGNOR	48.5†	—	49†	—	NEWQUAY	51·7	+ 4·9	52	+ 5
DUNMOW	31·6	—	32	—						GUERNSEY	68·3†	+ 13·1	69†	+ 13

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 28, page 164	Malin Head	—	—	—	—	—	—	—	—	1	0·54	−0·10	—	—	—	—
No. 29, page 170	Sumburgh Head	—	—	—	—	—	—	—	—	3	0·04	−0·51	—	—	—	—
" " "	Hereford	—	—	74·7	52·2	62·7	+ 2·0	145	—	3	1·02	+0·51	—	—	—	—
" " "	Stonyhurst	—	—	—	—	—	—	—	—	2	0·05	−0·91	—	—	—	—
No. 30, page 176	Hillington	—	—	—	57·5	65·2	+ 4·4	162	—	—	—	—	—	—	—	—
" " "	Stonyhurst	—	—	—	—	—	—	—	—	3	0·38	−0·64	—	—	—	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

TWENTY-SEVENTH YEAR. Vol XXI. (New Series.) No. 34. THIRTY-FOURTH WEEK, ENDING SATURDAY, AUGUST 27TH, 1904. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 200.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	69	32	57·8	45·0	51·0	3 below	63	−21	0	0	1417	− 29	477	− 72
	1. SCOTLAND, EAST	71	33	59·9	44·6	51·8	4 below	69	−29	0	0	1579	−161	585	− 7
	2. ENGLAND, N.E.	70	37	61·0	47·7	53·9	4 below	83	−28	0	0	1926	+ 56	431	− 59
	3. ENGLAND, EAST	72	40	65·0	49·4	56·7	3 below	103	−18	0	0	2190	+ 15	404	−131
	4. MIDLAND COUNTIES	73	36	62·1	46·2	53·7	5 below	82	−34	0	0	2036	−133	474	− 73
	5. ENGLAND, SOUTH	75	36	65·9	49·5	57·2	3 below	106	−22	0	0	2239	−120	345	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	65	38	59·5	46·1	52·4	4 below	73	−25	0	0	1721	−111	375	− 42
	7. ENGLAND, N.W.	70	36	59·9	48·0	53·6	5 below	81	−30	0	0	1887	−111	386	− 13
	8. ENGLAND, S.W.	73	40	63·2	49·6	56·0	3 below	98	−20	0	0	2178	− 30	252	− 53
	9. IRELAND, NORTH	70	40	60·3	47·7	53·7	3 below	82	−21	0	0	1756	−191	337	− 20
	10. IRELAND SOUTH	72	39	63·5	48·6	55·6	3 below	95	−17	0	0	2086	−127	232	− 24
	— CHANNEL ISLANDS	70	50	63·5	53·8	58·4	3 below	115	−21	0	0	2489	− 8	80	− 41

Rainfall.

	DISTRICTS. (See p. 200.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	8	1 less	157	+14	32·4	+ 3·7
	1. SCOTLAND, EAST	6	3	4 less	137	+14	18·7	− 0·2
	2. ENGLAND, N.E.	4	9	3 more	116	+ 3	14·7	− 0·5
	3. ENGLAND, EAST	4	7	2 more	108	− 6	13·6	− 0·9
	4. MIDLAND COUNTIES	4	11	5 more	122	+13	17·5	+ 0·7
	5. ENGLAND, SOUTH	4	6	1 more	120	+14	17·3	+ 1·0
Principal Grazing Districts.	6. SCOTLAND, WEST	4	6	4 less	139	+12	32·0	+ 2·8
	7. ENGLAND, N.W.	5	14	6 more	135	+16	20·9	+ 0·9
	8. ENGLAND, S.W.	4	8	1 more	133	+13	25·4	+ 3·4
	9. IRELAND, NORTH	5	4	5 less	166	+21	26·0	+ 4·2
	10. IRELAND, SOUTH	4	8	1 less	149	+18	27·0	+ 2·5
	— CHANNEL ISLANDS	5	5	1 less	147	+25	22·6	+ 4·5

Bright Sunshine.

	DISTRICTS. (See p. 200.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	28	+ 3	28	+ 3	898	+ 24	28	+ 1
	1. SCOTLAND, EAST	31	− 1	31	− 1	921	− 82	29	− 3
	2. ENGLAND, N.E.	29	−12	29	−12	1034	− 71	32	− 2
	3. ENGLAND, EAST	44	+ 3	45	+ 3	1217	− 8	38	0
	4. MIDLAND COUNTIES	30	− 5	31	− 5	1026	− 3	32	0
	5. ENGLAND, SOUTH	45	+ 1	47	+ 1	1219	+ 18	39	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	21	−10	21	−10	967	− 79	30	− 2
	7. ENGLAND, N.W.	23	−14	23	−14	1060	+ 48	33	+ 2
	8. ENGLAND, S.W.	31	−12	32	−13	1154	− 95	37	− 3
	9. IRELAND, NORTH	27	− 2	27	− 2	914	− 46	29	− 1
	10. IRELAND, SOUTH	31	− 2	32	− 2	1024*	− 59	32	− 2
	— CHANNEL ISLANDS	37	−15	39	−15	1358	− 77	43	− 3

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was unsettled very generally, rain falling on several days and thunderstorms occurring in many localities over the eastern and northern counties of England between the 21st-23rd, and at a few north-western stations on the 24th.

Temperature was considerably below the mean, the deficit amounting to between 3° or 4° in most districts, and to as many as 5° in the Midland Counties and England N.W. The highest of the maxima were recorded on the 27th, and ranged from 75° in England S. and 73° in the Midland Counties and England S.W., to 65° in Scotland W. The lowest of the minima, which were nearly all registered on the 25th, were as low as 32° in Scotland N. and 33° in Scotland E. (at Lairg and Nairn), while elsewhere they varied from 36° in England S., the Midland Counties, and England N.W., to 40° in England E. and S.W. and Ireland N., and to 50° in the Channel Islands.

Rainfall was more than the mean over England, but rather less in Ireland, Scotland, and the Channel Islands.

Bright Sunshine was deficient in all parts of the Kingdom except Scotland N. and England E. and S. The percentage of the possible duration ranged from 47 and 45 respectively in England S. and E. to 29 in England N.E., 27 in Ireland N., 23 in England N.W., and to 21 in Scotland W.

Barometer and Wind. At the beginning of the week an anticyclone lay over the whole Kingdom and the winds were very light and variable. By 8 a.m. on Monday, however, the barometer had fallen briskly, and the centre of a rather deep depression had appeared over Wales. This system subsequently moved away to the Continent, and the eastern edge of an anticyclone spread over our western districts. The Northerly wind over our Islands, which was strong in the rear of the depression, gradually subsided. During Wednesday and Thursday the anticyclone moved eastwards across these Islands and the Bay of Biscay. The centre of the depression which followed remained outside our coasts to the northward of Scotland, and only its small secondaries passed directly over the country. The Westerly winds accompanying this system were fresh or strong on many parts of our west and north-west coasts. At the end of the week an anticyclone was extending over the Kingdom from the Southward.

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II.—DATA from which the SUMMARY on page 199 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	57	44	54·9	46·9	50·7	− 1·6	61	0	7	0·59	− 0·17	*	*	*	*
	Stornoway	60	45	57·9	46·6	51·9	− 1·8	69	0	6	0·87	+ 0·01	38·8	+ 10·4	38	+ 10
	Wick	62	35	57·1	44·3	50·3	− 3·8	58	0	7	0·77	+ 0·17	*	*	*	*
	Lairg Ꞩ	69	32	61·4	40·8	50·5	− 3·4	65	3	6	0·56	− 0·09	*	*	*	*
	Glencarron Ꞩ	58	37	55·6	44·2	49·6	− 4·3	53	0	6	1·82	+ 0·23	*	*	*	*
	Fort Augustus Ꞩ	61	34	58·9	45·6	51·9	− 3·9	69	0	5	0·38	− 0·40	25·5	+ 6·0	25	+ 6
	Fort William	62	39	58·5	46·7	52·3	− 3·9	72	0	5	0·84	− 0·58	30·8	+ 8·2	31	+ 8
1. SCOTLAND, E.	Nairn	63	33	59·7	43·3	51·0	− 4·6	63	0	7	0·45	− 0·15	*	*	*	*
	Aberdeen	64	40	59·7	45·3	52·1	− 3·3	71	0	5	0·26	− 0·41	38·5	+ 5·2	38	+ 5
	Braemar Ꞩ	61	34	55·7	42·1	48·5	− 4·1	46	0	6	0·26	− 0·57	*	*	*	*
	Ochtertyre Ꞩ	71	39	62·4	45·0	53·2	− 3·0	78	0	5	0·30	− 0·54	*	*	*	*
	Leith	68	42	62·7	48·4	55·1	− 2·4	92	0	6	0·28	− 0·30	*	*	*	*
	Marchmont Ꞩ	63	38	59·1	43·6	50·9	− 4·3	62	0	5	0·34	− 0·43	28·4	− 4·6	28	− 5
2. ENGLAND, N.E.	Alnwick Castle	68	41	61·5	47·4	54·0	− 2·0	84	0	4	1·03	+ 0·34	*	*	*	*
	Durham	66	37	59·1	45·8	52·1	− 5·0	71	0	5	1·29	+ 0·69	19·3	− 12·4	20	− 13
	Shields	66	41	59·6	47·4	53·1	− 3·7	78	0	3	1·12	+ 0·51	*	*	*	*
	Scarborough 𝔐	68	45	61·3	48·7	54·6	− 3·2	88	0	4	0·62	+ 0·02	28·0	—	28	—
	Spurn Head	65	49	60·9	51·6	56·0	− 2·9	98	0	3	0·89	+ 0·46	*	*	*	*
	Lincoln	68	41	61·5	46·8	53·7	− 5·0	82	0	5	0·59	+ 0·05	*	*	*	*
	Fulbeck (Lincolnshire)	70	39	62·9	45·9	53·9	− 4·5	83	0	4	0·45	− 0·10	37·9	—	39	—
3. ENGLAND, E.	Hillington 𝔐	69	43	63·8	47·7	55·3	− 3·9	93	0	5	0·39	− 0·24	39·5	+ 1·4	40	+ 1
	Yarmouth	66	49	62·4	52·0	56·9	− 3·0	104	0	5	2·06	+ 1·53	*	*	*	*
	Geldeston	70	41	64·7	47·5	55·6	− 3·9	95	0	4	1·43	+ 0·97	41·1	− 0·3	42	0
	Cambridge	71	40	65·9	46·5	55·6	− 4·4	95	0	4	0·15	− 0·38	42·4	+ 2·0	43	+ 2
	Felixstowe	72	46	66·0	52·9	59·1	− 0·4	120	0	2	0·06	—	47·1†	—	49†	—
	Clacton-on-Sea	72	46	65·6	51·6	58·2	− 1·7	113	0	3	0·21	—	50·7†	—	52†	—
	Rothamsted	68	41	64·5	46·3	54·9	− 4·0	90	0	4	0·45	− 0·11	47·8	+ 6·8	49	+ 7
	Shoeburyness	72	41	66·7	50·3	58·0	− 2·6	112	0	1	0·72	+ 0·31	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	66	41	58·9	46·3	52·2	− 4·7	71	0	4	1·36	+ 0·69	19·9	—	20	—
	Bawtry (Hesley Hall)	69	—	61·9	—	—	—	—	—	3	1·06	+ 0·52	*	*	*	*
	Nottingham	70	39	62·6	45·9	53·8	− 5·1	83	0	4	1·19	+ 0·62	35·1	—	36	—
	Colly Weston (Stamford)	71	41	65·1	46·3	55·1	− 4·7	92	0	2	0·03	− 0·51	*	*	*	*
	Cheadle 𝔐	69	44	59·7	46·8	52·9	− 3·8	76	0	4	1·97	+ 1·20	*	*	*	*
	Birmingham (Edgbaston)	72	44	61·4	47·7	54·1	− 4·1	85	0	3	0·83	+ 0·20	33·3	—	34	—
	Shrewsbury	73	36	61·6	45·8	53·2	− 5·2	78	0	3	0·97	—	*	*	*	*
	Hereford 𝔐	73	39	62·4	45·7	53·6	− 5·5	81	0	4	1·71	+ 1·16	*	*	*	*
	Cirencester	70	37	62·6	44·4	53·0	− 4·7	77	0	5	1·11	+ 0·42	32·4	− 6·8	33	− 7
	Oxford	72	42	64·4	47·1	55·2	− 4·7	92	0	3	0·39	− 0·15	38·6	− 1·4	40	− 1
5. ENGLAND, S.	London	73	44	67·4	48·9	57·6	− 3·5	109	0	4	0·29	− 0·23	39·9‡	+ 2·5‡	41‡	+ 3‡
	Wisley (Surrey)	73	40	67·3	47·2	56·7	− 4·6	103	0	2	0·09	—	44·9	—	46	—
	Swarraton (Alresford) 𝔐	71	36	64·6	46·3	54·9	− 3·3	90	0	4	0·79	+ 0·15	*	*	*	*
	Tunbridge Wells 𝔐	73	43	67·9	47·4	57·0	− 2·9	105	0	3	0·20	—	49·8	—	51	—
	Dungeness	68	46	65·3	51·9	58·2	− 2·9	113	0	3	0·41	− 0·04	48·5	—	50	—
	Hastings (St. Leonards)	69	48	65·2	51·4	57·9	− 3·1	111	0	2	0·13	− 0·43	48·9	+ 3·2	50	+ 3
	Southampton	75	45	68·0	50·2	58·6	− 2·6	116	0	4	0·62	+ 0·01	46·1	+ 1·4	48	+ 1
	Portland Bill	67	49	63·9	53·1	58·2	− 2·2	113	0	5	1·46	—	*	*	*	*
	Shaftesbury 𝔐	69	47	63·1	48·9	55·6	− 3·4	95	0	6	1·76	+ 1·09	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	65	41	59·8	46·0	52·5	− 3·7	74	0	5	1·18	− 0·16	*	*	*	*
	Glasgow	62	44	58·9	48·0	53·1	− 2·9	78	0	7	0·52	− 0·38	21·8	− 5·7	22	− 6
	Cally Ꞩ	62	38	58·2	41·1	49·1	− 6·8	53	3	4	0·78	− 0·27	*	*	*	*
	Aspatria	63	41	59·8	46·7	52·9	− 3·3	76	0	2	0·30	—	18·3	—	19	—
	Douglas (Isle of Man)	65	43	60·6	48·6	54·2	− 2·2	85	0	4	0·31	− 0·57	22·9	− 14·3	23	− 15
7. ENGLAND, N.W.	Newton Rigg	62	36	57·5	43·3	50·0	− 5·8	56	0	5	1·52	—	17·4	—	18	—
	Stonyhurst	63	42	58·2	47·6	52·6	− 4·6	74	0	4	1·40	+ 0·23	17·4	− 14·8	18	− 15
	Blackpool 𝔐	63	44	60·2	48·3	53·9	− 4·5	83	0	4	0·89	+ 0·11	16·8	− 16·6	17	− 17
	Manchester (Prestwich)	67	42	60·3	47·0	53·3	− 4·2	79	0	5	1·62	+ 0·77	17·8	—	18	—
	Liverpool Obsy. (Bidston)	64	48	60·0	49·9	54·7	− 4·5	89	0	5	1·45	+ 0·78	27·0	—	28	—
	Chester (Hawarden Bridge)	70	44	61·1	49·1	54·7	− 4·5	89	0	4	1·58	—	*	*	*	*
	Llandudno 𝔐	67	45	60·9	49·7	55·0	− 4·4	91	0	5	1·52	+ 0·87	25·2	− 9·7	26	− 10
	Holyhead	63	48	60·0	50·9	55·2	− 3·4	92	0	4	0·89	+ 0·21	*	*	*	*
	Bettws-y-Coed	68	39	60·6	45·8	52·8	− 6·0	76	0	5	1·65	—	22·5	—	23	—
8. ENGLAND, S.W.	Pembroke	62	49	60·4	51·7	55·8	− 2·9	97	0	3	0·64	− 0·03	34·8	− 6·8	36	− 7
	Clifton	71	47	64·6	49·6	56·7	− 2·9	103	0	4	0·56	− 0·20	*	*	*	*
	Bath	71	40	64·6	46·6	55·1	− 5·3	92	0	4	0·93	+ 0·29	30·4	—	31	—
	Arlington (N. Devon)	67	43	61·7	47·0	53·9	− 4·2	83	0	5	1·23	+ 0·08	*	*	*	*
	Cullompton 𝔐	73	41	65·1	47·0	55·5	− 3·7	95	0	4	0·61	− 0·04	28·5	− 11·2	29	− 12
	Falmouth	65	50	62·3	53·5	57·6	− 2·1	109	0	4	0·95	+ 0·11	32·3	− 13·9	33	− 14
	Plymouth	66	47	63·8	51·6	57·3	− 2·9	107	0	4	0·94	+ 0·27	33·7	− 9·1	35	− 9
9. IRELAND, N.	Malin Head	61	45	57·3	48·1	52·4	− 4·6	73	0	4	0·28	− 0·46	*	*	*	*
	Edenfel (Omagh)	67	41	60·0	46·4	52·8	− 2·7	76	0	4	0·28	− 0·55	*	*	*	*
	Blacksod Point	62	47	61·1	49·6	55·0	− 2·7	91	0	7	0·29	− 0·85	*	*	*	*
	Markree Castle	68	40	61·3	47·1	53·8	− 2·3	83	0	3	0·67	− 0·27	28·4	+ 0·1	29	0
	Armagh	69	42	61·3	46·5	53·5	− 3·2	81	0	4	0·54	− 0·19	24·9	− 3·1	25	− 3
	Donaghadee	70	44	60·9	48·6	54·4	− 2·5	87	0	5	0·14	− 0·60	*	*	*	*
10. IRELAND, S.	Dublin	72	45	64·0	49·7	56·4	− 2·3	101	0	5	0·53	− 0·13	30·4	− 5·5	31	− 6
	Birr Castle	68	39	62·9	45·7	53·8	− 3·5	83	0	2	0·81	− 0·02	24·7	− 6·3	25	− 6
	Kilkenny	69	41	63·4	47·1	54·8	− 3·4	90	0	3	0·73	− 0·03	*	*	*	*
	Waterford	69	44	64·4	47·4	55·4	− 2·9	94	0	4	0·84	+ 0·02	*	*	*	*
	Roche's Point	67	47	63·1	49·9	56·1	− 3·1	99	0	6	0·51	− 0·36	*	*	*	*
	Valencia	66	47	61·4	51·3	56·1	− 2·5	99	0	6	1·28	+ 0·19	38·5	+ 5·0	40	+ 5
	Killarney	69	42	65·5	49·1	56·8	− 1·3	104	0	4	0·70	− 0·35	*	*	*	*
	Foynes	—	—	—	—	—	—	—	0	—	—	—	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	54	62·1	54·6	58·1	− 2·4	113	0	5	0·46	− 0·13	34·3	− 16·3	35	− 17
	Jersey	70	50	64·9	53·0	58·6	− 3·7	116	0	5	0·46	− 0·12	36·3	− 16·9	38	− 18

Stations Marked 𝔐 are in connection with the Royal Meteorological Society, and those marked Ꞩ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Felixstowe and Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

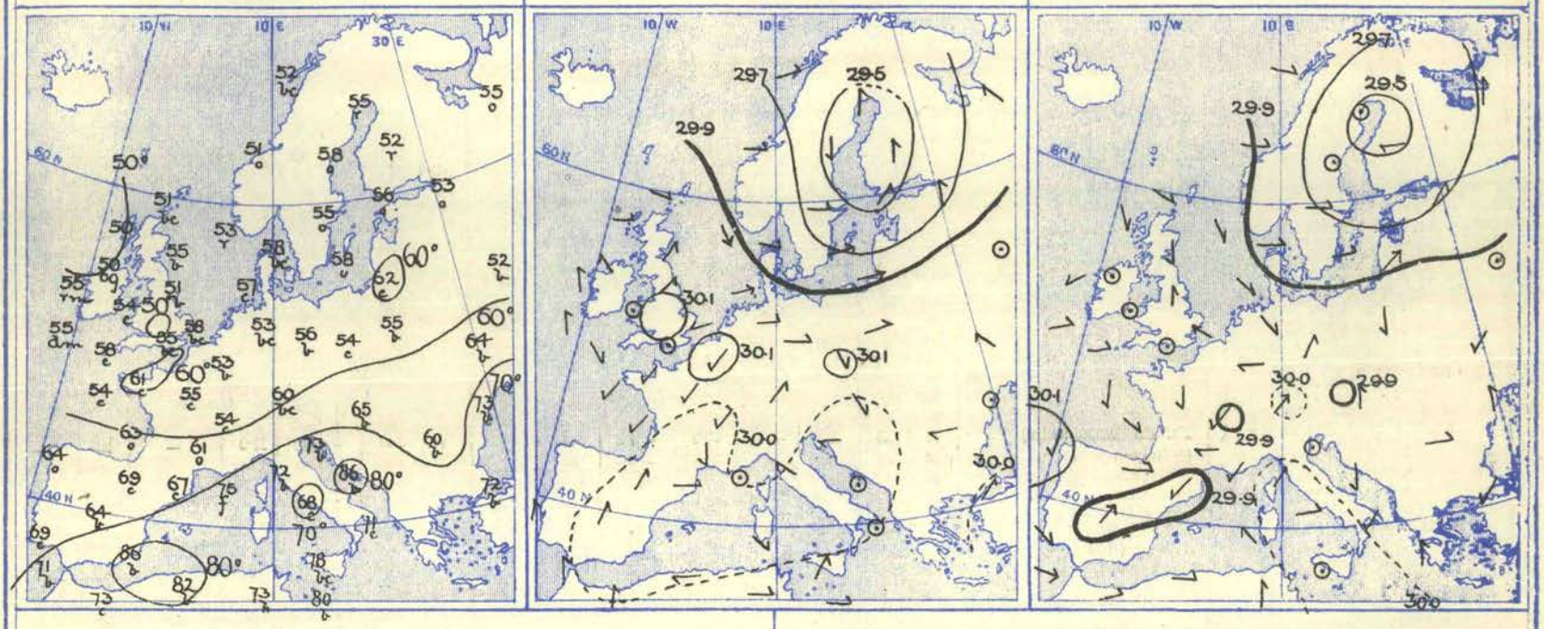
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 21st August, 1904.

Temperature and Weather. — 8 a.m.

Barometer and Wind. — 8 a.m. | 6 p.m.



Weather at 8 a.m. varying a good deal, but generally fine in the southern regions and cloudy or overcast in the north. Rain falling at some of our own western stations and in Finland. Severe thunderstorms later in the east and south of France and in the north of Italy, accompanied by more than an inch of rain. Heavy rain also falling over the north of England, and a sharp thunderstorm occurring at Yarmouth.

Temperature changed irregularly. Morning readings highest, 86° at Lésina and Alicante, 85° at Palma, 80° at Malta, and above 70° at many stations in the south. Lowest, 48° at Nottingham, 52° at Bodö, Moscow, and Kuopio, 54° at Belfort and Le Mans, and 55° at Paris and Warsaw. Rising subsequently to 97° at Brindisi and Tunis, 90° at Toulouse, 89° at Rome, and above 80° at the central and southern stations generally. Maxima below 70° over Great Britain and Ireland, and below 60° in places.

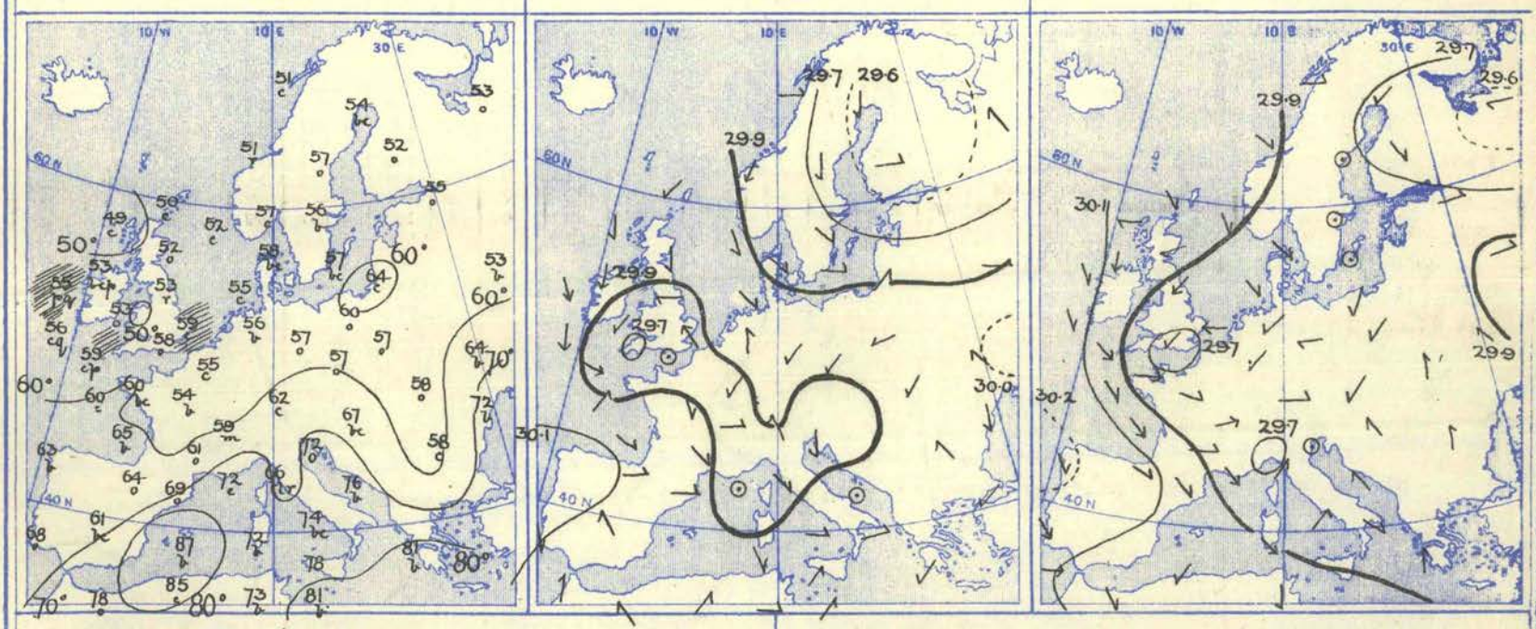
Wind at 8 a.m. light and anticyclonic over the United Kingdom and central Europe, but an irregular and feeble cyclonic circulation prevailing over the Mediterranean and its vicinity, and a similar movement of greater strength over northern Europe. Cyclonic winds in the south spreading gradually northwards during day, and a new cyclonic circulation setting in over Ireland.

Barometer at 8 a.m. highest, 30·0 ins. to 30·1 ins. in a large anticyclone of irregular form extending from our Islands and the west of Spain to Greece and the south of Russia. Lowest, 29·5 ins. and less in a depression over the Gulf of Bothnia. Anticyclone decreasing much in size later, owing to the spreading northward of a large shallow low pressure area in the south and to the appearance of a small system over Ireland.

Monday, 22nd August, 1904.

Temperature and Weather. — 8 a.m.

Barometer and Wind. — 8 a.m. | 6 p.m.



Weather at 8 a.m. very unsettled generally, with a thunderstorm at Florence, and rain at many of our own stations and at Christiansund. Fine and bright over Algeria and the most southern parts of Europe. A thunderstorm occurring in the east and south-east of England later. More than an inch of rain falling in several parts of Great Britain and the central and southern parts of the Continent. Largest amounts, 1·9 ins. at Cracow and 2·4 ins. at Trieste.

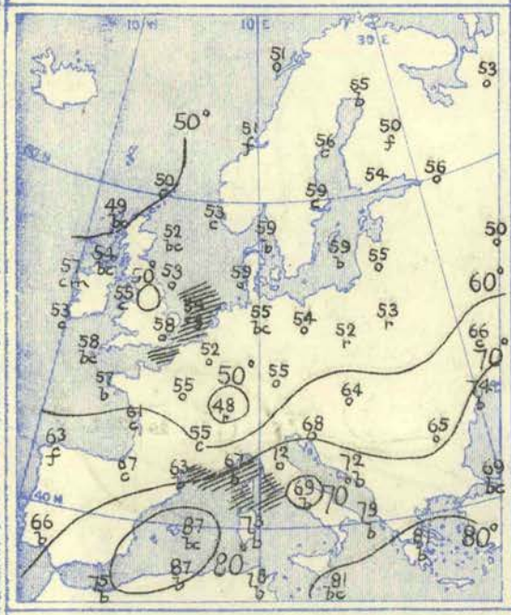
Temperature changed little and irregularly. Morning readings ranging from 87° at Palma and 81° at Malta and Patras, to 72° at Odessa and Trieste, to below 60° over the northern half of our area generally, and to a little below 50° at Stornoway and Liverpool. Rising later to 67° in the south-east of England, 68° at Haparanda, above 80° in the south of France, Austria-Hungary, and the south generally, to 95° at Cagliari, and to 108° at Tunis. Maxima below 60° in several parts of our Islands.

Wind at 8 a.m. showing cyclonic circulations over the United Kingdom, central Europe, and also in the far north. Little force as a whole, but Northerly current fresh or strong on our western coasts. No great or general change later.

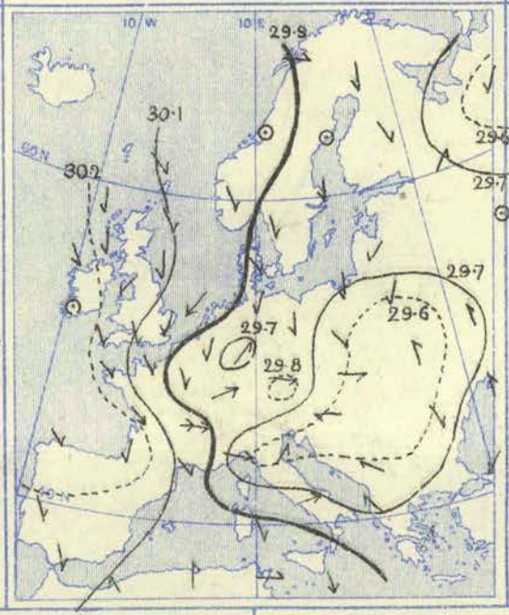
Barometer at 8 a.m. ranging from above 30·1 ins. over Portugal and the north of Spain, to below 29·9 ins. in a very irregularly shaped and complex disturbance extending south-eastwards from our Islands to the Gulf of Genoa and Hungary, and having its chief minimum, about 29·7 ins., over South Wales. Another depression—large and shallow, with readings below 29·6 ins.—over Finland and northern Russia. Disturbances all moving eastwards later, and barometer rising decidedly on our west coasts.

Tuesday, 23rd August, 1904.

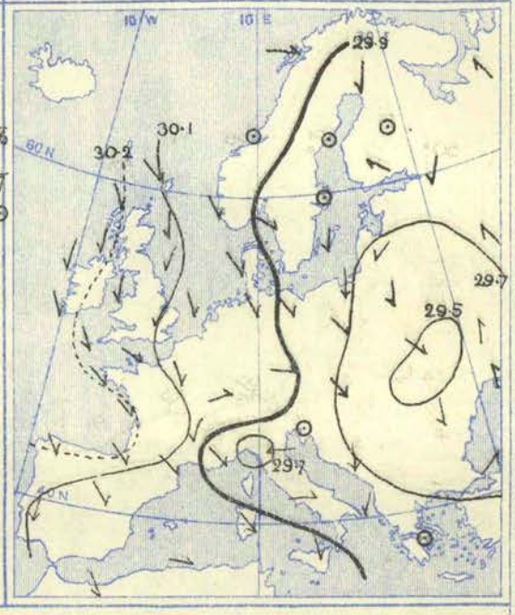
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in Algeria, Greece, Portugal, and the south of Italy, as well as in the south of Russia. Dull and unsettled over our area generally, and rainy over central Europe. Considerable or large quantities of rain experienced over the central countries later, and smaller amounts over northern Europe and our Islands. Largest falls, 1·2 ins. at Breslau, 0·9 in. at Cracow and Warsaw, and 0·8 in. at Trieste. A thunderstorm occurring in the neighbourhood of Cherbourg.

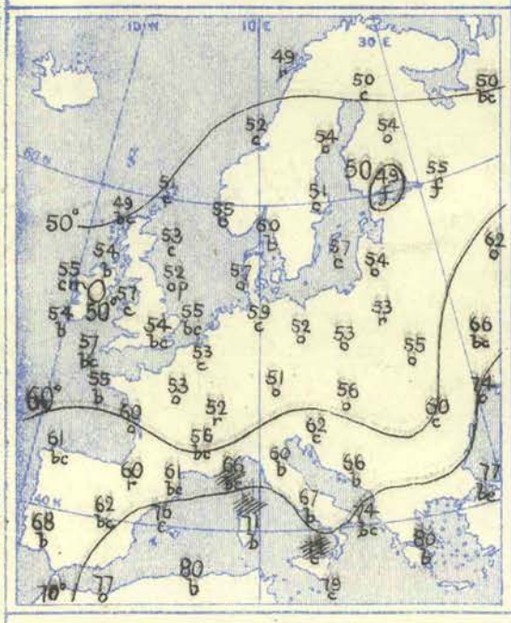
Temperature fallen generally. Morning readings highest, 87° at Palma and Algiers, 81° at Malta and Athens, 75° at Leghorn, and 74° at Odessa. Lowest, 48° at Belfort, 49° at Liverpool and Stornoway, 50° at Moscow, 51° at the west coast of Norway, and 52° at Breslau. Rising during day to 66° at Bournemouth, above 70° in the south of France, and above 80° in several other southern localities. Highest values, 92° at Madrid, 93° at Athens, 95° at Brindisi, and 100° at Algiers.

Wind at 8 a.m. cyclonic very generally; fresh to strong from North over the United Kingdom, and strong to a gale from West over the south-east of France and the north of Italy. Northerly current subsiding to a light or moderate breeze over our Islands later, and considerable modifications taking place both in direction and force on the Continent.

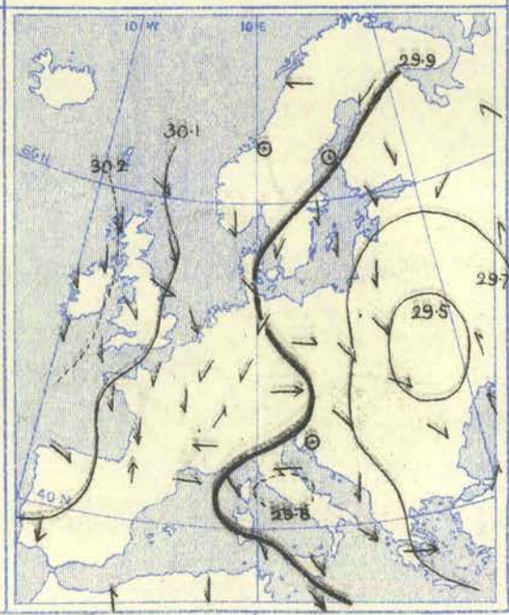
Barometer at 8 a.m. ranging from above 30·2 ins. in an anticyclone extending from the Atlantic over the west of Ireland and the north of Spain, to 29·7 ins. and less in a depression over western Germany, and to below 29·6 ins. (1) in an elongated disturbance extending from the north of Italy to Poland, and (2) in another system over the north of Russia. German depression dispersing by evening, and the elongated system breaking into two parts. Western anticyclone moving slowly eastwards.

Wednesday, 24th August, 1904.

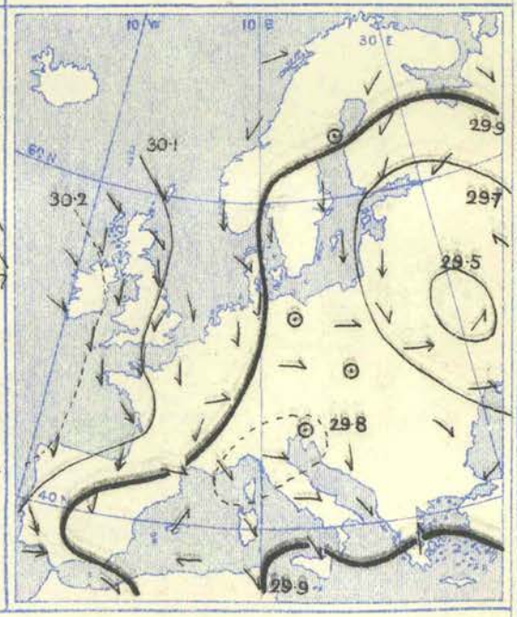
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair in nearly all parts of the United Kingdom and most parts of southern Europe, but rainy in the south-west of France and showery in the north-east of England. Dull or cloudy in other regions, with rain at Bodö, the Helder, and Belfort, and fog over the Gulf of Finland. Slight rain later in various parts of our Islands, and thunder at Portland Bill. Heavier falls in many Continental regions, accompanied by thunder and lightning at several French stations.

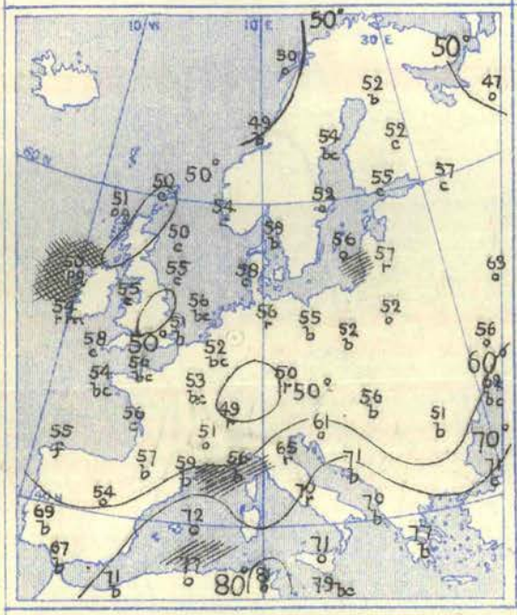
Temperature fallen generally—most in the south. Morning readings highest, 80° at Algiers and Athens, 77° at Constantinople, 76° at Barcelona, 74° at Odessa and Brindisi, and 72° at Palermo. Lowest, (1) 49° at Parsonstown and Stornoway, (2) 49° at Bodö, (3) 51° at Limoges and Munich, and 52° at Cracow and Breslau. Rising later to 99° at Aumale, 90° at Madrid, 84° at Palermo, to between 70° and 80° in the south generally, 66° at Brighton, and 63° at Stockholm.

Wind at 8 a.m. light to moderate or fresh from the Northward over our Islands and the western countries generally, but showing an extensive cyclonic circulation around the south-east of Russia, and a smaller cyclonic movement around Corsica and its vicinity. Scarcely any change occurring later.

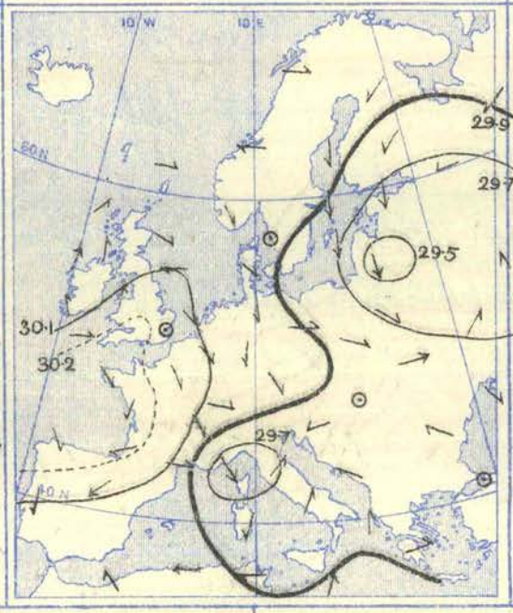
Barometer at 8 a.m. ranging from above 30·2 ins. over Ireland on the eastern side of an anticyclone to below 29·3 ins. in a depression centred near Corsica, and to less than 29·5 ins. in another having its centre between the Carpathians and the Dnieper. No material change taking place later; southern depression increasing somewhat in size, but maintaining the same intensity.

Thursday, 25th August, 1904.

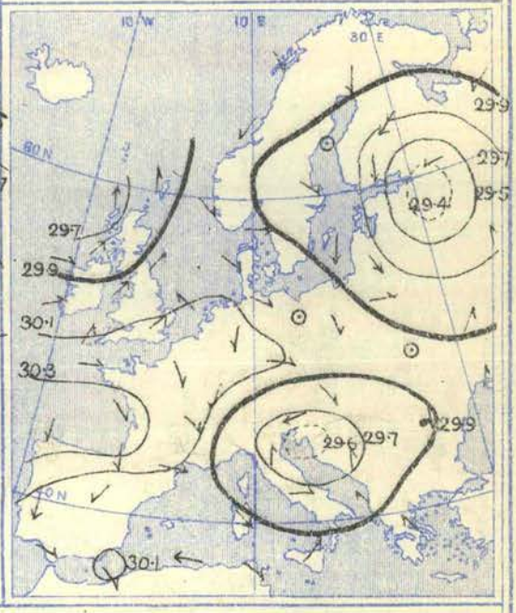
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine in most parts of England, France, Portugal, Greece, and the southern portions of Russia and Italy; cloudy or dull over our area generally, with rain in several localities, and a thunderstorm at Nice. Rain falling later except in Spain and Portugal, the south of France, Algeria, and Scandinavia—more than two inches in the north of Italy, 0·9 in. at Munich, and 0·6 in. at Trieste, Palermo, and Helsingfors.

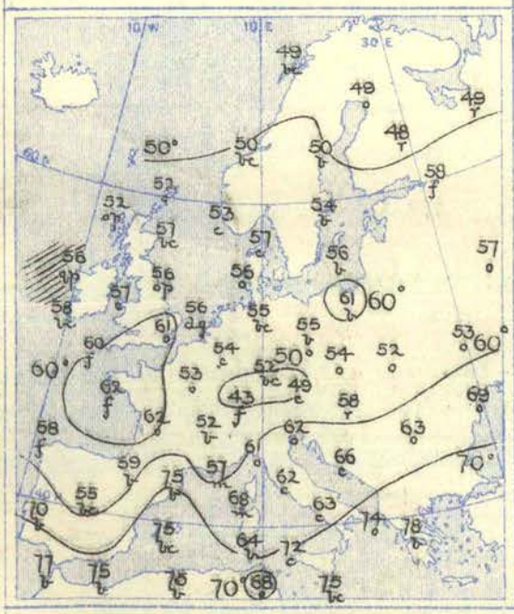
Temperature fallen in nearly all regions. Readings at 8 a.m. highest, 81° at Tunis and Sfax, 79° at Malta, and 77° at Patras. Lowest, (1) 45° at Bath and Nairn, (2) 47° at Archangel, (3) 48° at Limoges, 49° at Belfort and Prague, and 51° at Hermanstadt. Rising later to 89° at Nemours, 88° at Patras, and to above 80° at a few other southern stations. Maxima much lower elsewhere; below 60° at some of our own stations, and only 63° at Lyons. At Munich the thermometer rose no higher than 52°.

Wind in morning showing two distinct cyclonic circulations—one over Russia and the Baltic, and the other around the Gulf of Genoa. Not much strength generally, but fresh or strong in places. An anticyclonic movement prevailing over the Bay of Biscay and its vicinity, and a strong South-South-Westerly wind on the north-west coast of Ireland. Wind increasing to a slight gale later over Finland and the Baltic, and also in the north of Italy, Corsica, and Sardinia. Veering to West in Ireland, but increasing from the Southward on the west coasts of Great Britain.

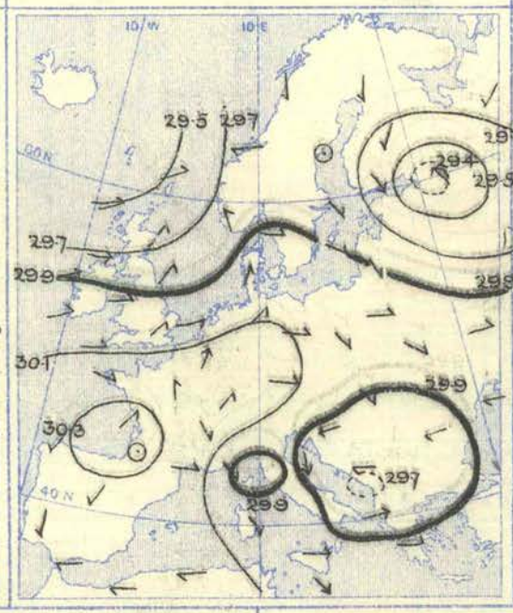
Barometer at 8 a.m. ranging from above 30·2 ins. in an anticyclone centred over the Bay of Biscay, to 29·7 ins. and less in a depression over the Gulf of Genoa, and to less than 29·5 ins. in a disturbance over West Russia. Another depression advancing on Ireland from the Atlantic. Continental disturbances both moving north-eastwards later and growing deeper; that off Ireland skirting our western coasts.

Friday, 26th August, 1904.

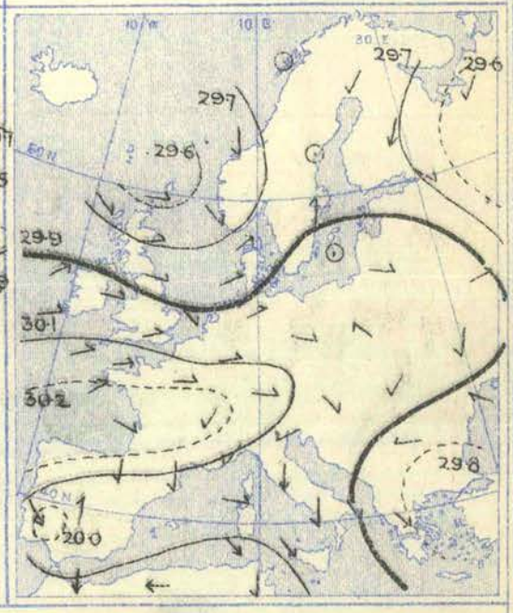
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull generally, with rain in various parts of our Islands, Finland, and at Buda-Pesth. Fine and bright in Greece, the Spanish Peninsula, the south of France, and Scandinavia. Rain falling in many parts of our area later—largest amounts, 1·4 ins. at Hercanstadt, 0·9 in. at Brindisi, and 0·8 in. at Archangel.

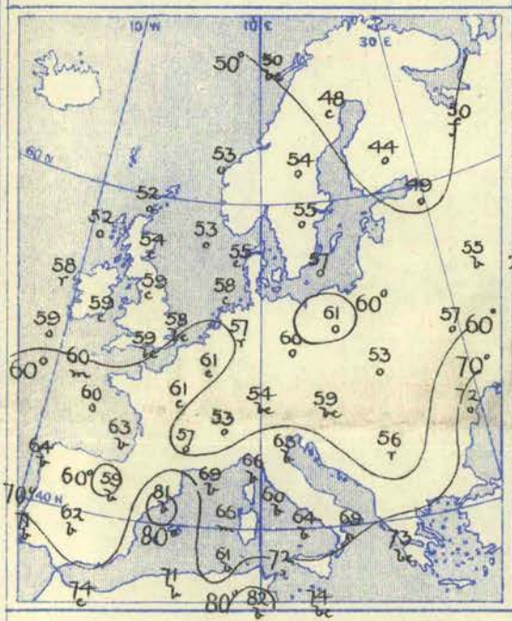
Temperature risen over the United Kingdom and the west and south of France, fallen in nearly all other places. Morning readings highest, 78° at Athens, 77° at San Fernando, 75° at Palma and Malta, and 74° at Brindisi. Lowest, (1) 43° at Belfort, 45° at Limoges, 49° at Munich, and 51° at Breslau and Warsaw, (2) 48° at Kuopio, 49° at Archangel, Ulealborg, and Bodö. Rising during day to 72° at Margate and Clacton, to 80° or above at several of the Mediterranean stations, to 93° at Tunis, and to 104° at Nemours.

Wind at 8 a.m. still showing cyclonic circulations of moderate to strong winds both over southern Europe and Russia, and an anticyclonic movement in the most south-western regions. Light or moderate to strong Westerly breezes prevailing over the United Kingdom. No important change later in day.

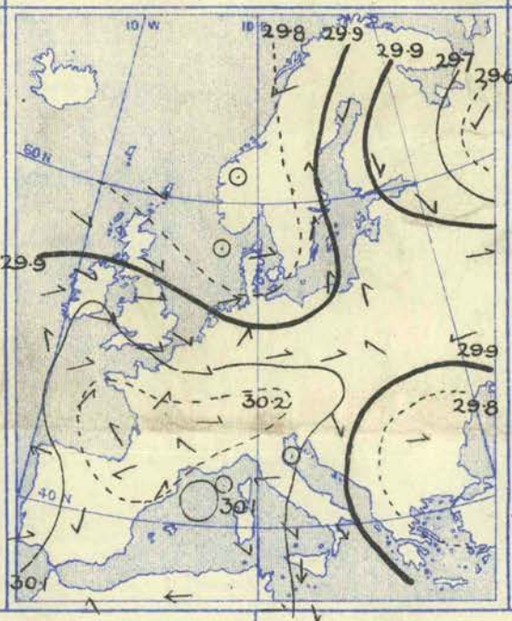
Barometer at 8 a.m. ranging from above 30·3 ins. in an anticyclone having its centre near Biarritz to less than 29·9 ins. in a depression over the Gulf of Genoa, below 29·7 ins. in another system over the Adriatic, to about 29·5 ins. in a third disturbance centred off the north of Scotland, and to below 29·4 ins. in a fourth with its centre near St. Petersburg. Depressions moving eastwards later, and a small minima appearing near Lisbon.

Saturday, 27th August, 1904.

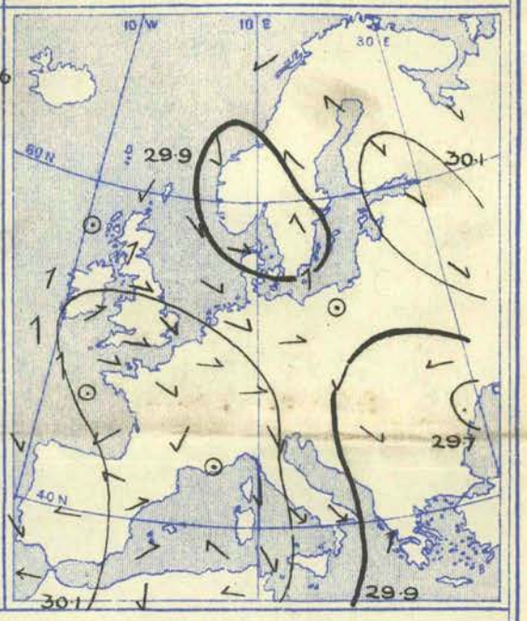
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather at 8 a.m. fine and bright in Portugal and on most shores of the Mediterranean, cloudy or overcast over our area as a whole, with rain at Hermanstadt, Cuxhaven, Le Havre, and at some Irish and Scotch stations. Slight rain later in various parts of our Islands, heavier amounts in Scandinavia and central Europe (0·8 in. at Wisby), 0·5 in. at Munich, and 0·9 in. at Lemberg.

Temperature risen over France and central Europe, changed irregularly elsewhere. Morning readings highest, 82° at Sfax, 81° at Barcelona, 73° in Greece, 72° in the extreme south of Russia, and 69° at Nice. Lowest, 44° at Kuopio, 48° at Haparanda, 49° at St. Petersburg, 52° in the north of Scotland, 53° at Belfort, and 54° at Munich. Rising later to 73° in London, above 80° in the south of France, Spain, and some other southern districts. Highest values, 90° at Madrid and 91° at Bilbao.

Wind at 8 a.m. light and anticyclonic over the centre and south-west of Europe, cyclonic elsewhere, light or moderate generally, but strong or fresh in a few localities. No change of importance occurring later.

Barometer at 8 a.m. ranging from above 30·2 ins. in an anticyclone extending from the Bay of Biscay to Bavaria, to less than 29·8 ins. in depressions shown over the south-east and north-west of Europe, and to below 29·6 ins. in a disturbance over the north-east of Russia. Anticyclone extending eastwards and northwards during day, but pressure decreasing over the west of France. Russian depression moving away quickly eastwards or dispersing.

IV.—GENERAL NOTES, etc.

The weather during this period was of a decidedly unsettled character over the greater part of the Continent and the United Kingdom, almost the only portions of our area without considerable or heavy rain being the Iberian Peninsula and the extreme south-east of Europe. At the commencement of the week a large high pressure system stretched from the Atlantic across central Europe to the south of Russia, while a large depression lay over the Gulf of Bothnia, but by Monday the greater part of this area was occupied by a very irregularly shaped belt of low pressure containing several minima, the chief of which lay over our own western districts. The latter soon passed eastwards to Germany, after causing heavy rains in many parts of this country, and, with other disturbances which appeared over the Gulf of Genoa and the more eastern countries of central Europe, produced the first general and heavy rains that have been experienced in those regions for many weeks past. The system which reached Germany from the United Kingdom apparently dispersed, but the other two continued to prevail for some days and underwent considerable modification both in form and intensity. The Spanish Peninsula and the Bay of Biscay were mostly under the influence of an anticyclone of moderate intensity, which sometimes extended northwards to Ireland or England. The winds accompanying the baric minima were often strong, both in the northern regions of the Continent and on the shores of the Mediterranean and Adriatic, and more than once slight gales were reported.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 200.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	28·9	+ 2·7	28	+ 3
STRATHPEFFER SPA	16·6	- 10·6	16	- 11
CRATHES	30·9	—	31	—
EDINBURGH	26·0	- 5·0	26	- 5
COCKLE PARK	32·5	—	33	—
NEWCASTLE-on-TYNE	23·4	—	24	—
YORK	21·0	- 11·1	21	- 11
SKEGNESS	? 36·1	—	37	—
CROMER	40·6	—	41	—
LOWESTOFT	46·4	—	47	—
DUNMOW	40·0	—	41	—
SHEFFIELD	24·4	—	25	—
WORKSOP	23·0	- 8·7	24	- 9
THURCASTON	33·3	- 1·9	34	- 2
MARGATE	46·3	+ 5·6	48	+ 6
BROADSTAIRS	49·0	—	51	—
RAMSGATE	51·5	—	53	—
EASTBOURNE	49·0	+ 4·3	51	+ 4
BRIGHTON	46·8	+ 0·2	48	0
WORTHING	50·3	—	52	—
BOGNOR	52·2†	—	54†	—
WESTBOURNE	41·3†	- 3·7	43†	- 4
VENTNOR HOSPITAL	46·1	+ 0·7	48	+ 1
BOURNEMOUTH	44·4	—	46	—
MARLBOROUGH	32·0	- 6·6	33	- 7
SOUTHPORT	17·3	—	18	—
RHYL	42·5	—	43	—
ABERDOVEY	37·6†	—	38†	—
TENBY	? 29·5	- 12·5	30	- 13
TORQUAY	37·8	- 7·5	39	- 8
NEWQUAY	25·2	- 20·0	26	- 21
GUERNSEY	41·7†	- 11·4	43†	- 12

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 15, page 86	Hillington	—	—	—	39·8	48·5	+ 3·1	—	—	—	—	—	—	—	—	—
No. 16, page 92	Tunbridge Wells	—	—	—	39·4	48·6	+ 1·4	—	7	—	—	—	—	—	—	—
" "	Birr Castle	—	—	—	—	—	—	—	—	—	—	—	46·4	+7·8	47	+10
No. 17, page 98	Hillington	—	—	—	43·3	—	—	—	—	—	—	—	—	—	—	—
" "	London	—	—	—	43·9	50·0	+ 0·1	56	—	—	—	—	—	—	—	—
" "	Shaftesbury	—	—	—	42·1	47·3	- 0·3	37	—	—	—	—	—	—	—	—

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 35. THIRTY-FIFTH WEEK, ENDING SATURDAY, SEPTEMBER 3RD, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 206.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	78	44	62·9	50·6	56·4	3 above	101	+25	0	− 1	1518	− 4	477	− 73
	1. SCOTLAND, EAST	76	38	66·2	49·7	57·4	3 above	108	+22	0	0	1687	−139	585	− 7
	2. ENGLAND, N.E.	82	46	69·2	53·2	60·7	4 above	131	+33	0	0	2057	+ 89	431	− 59
	3. ENGLAND, EAST	81	46	67·7	53·9	60·4	2 above	129	+19	0	0	2319	+ 34	404	−131
	4. MIDLAND COUNTIES	84	45	69·0	51·9	59·9	3 above	125	+20	0	0	2161	−113	474	− 73
	5. ENGLAND, SOUTH	84	47	68·0	54·0	60·5	1 above	130	+ 9	0	0	2369	−111	345	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	77	45	65·2	52·4	58·5	3 above	116	+25	0	0	1837	− 86	375	− 42
	7. ENGLAND, N.W.	81	46	67·6	53·4	60·1	3 above	127	+25	0	0	2014	− 86	386	− 13
	8. ENGLAND, S.W.	78	45	66·4	54·7	60·2	2 above	127	+17	0	0	2305	− 13	252	− 53
	9. IRELAND, NORTH	77	44	63·8	52·5	57·8	2 above	111	+16	0	0	1867	−175	337	− 20
	10. IRELAND SOUTH	76	44	66·0	54·0	59·6	2 above	123	+19	0	0	2209	−108	232	− 24
	— CHANNEL ISLANDS	79	54	66·4	56·8	61·4	1 above	136	+ 7	0	0	2625	− 1	80	− 41

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 206.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	13	3 more	163	+16	33·7	+ 4·0	28	+ 3	29	+ 4	926	+ 28	28	+ 1
	1. SCOTLAND, EAST	4	9	2 more	141	+14	19·6	0·0	31	− 2	32	− 2	952	− 84	29	− 3
	2. ENGLAND, N.E.	3	7	1 more	119	+ 3	15·4	− 0·3	41	+ 7	43	+ 7	1075	− 64	33	− 2
	3. ENGLAND, EAST	5	8	3 more	113	− 4	14·4	− 0·7	41	+ 2	43	+ 2	1258	− 6	39	0
	4. MIDLAND COUNTIES	3	6	1 less	125	+13	18·1	+ 0·7	43	+ 8	46	+ 9	1069	+ 5	33	0
	5. ENGLAND, SOUTH	4	9	3 more	124	+15	18·2	+ 1·3	35	− 4	37	− 4	1251	+ 14	39	0
Principal Grazing Districts.	6. SCOTLAND, WEST	3	12	1 more	142	+11	33·2	+ 2·9	33	+ 1	34	+ 1	1001*	− 79	30	− 2
	7. ENGLAND, N.W.	3	6	2 less	138	+15	21·5	+ 0·7	39	+10	41	+10	1099	+ 58	34	+ 2
	8. ENGLAND, S.W.	4	6	2 less	137	+14	26·0	+ 3·2	41	+ 1	44	+ 1	1195	− 94	37	− 3
	9. IRELAND, NORTH	5	11	3 more	171	+21	27·1	+ 4·5	32	+ 4	34	+ 5	946	− 42	29	− 1
	10. IRELAND, SOUTH	3	9	0 (average)	152	+17	27·9	+ 2·6	30	− 3	32	− 3	1054	− 62	32	− 2
	— CHANNEL ISLANDS	5	7	0 (average)	152	+26	23·3	+ 4·6	38	− 9	41	−10	1396	− 87	43	− 3

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather was fine generally during the opening days of the period, but as early as Monday a thunderstorm occurred at Pembroke, and on the following day in many western and some northern localities. After this date the weather was of a broken character, sometimes dull and rainy, but with several fine intervals.

Temperature was very high until the 30th, the maxima recorded on that or the preceding day being 84° in England S. and the Midlands, 82° in England N.E., 81° in England E. and N.W., and between 78° and 76° elsewhere. The rest of the week was much cooler, but the averages for the whole period varied from 1° above the mean in Ireland S. and the Channel Islands, to 2° or 3° generally, and to 4° in England N.E. The lowest readings were mostly recorded on Friday or Saturday, and ranged from 38° in Scotland E. to 47° in England S., and to 54° in the Channel Islands.

Rainfall was rather less than the mean in the Midland Counties and England N.W. and S.W., just equalled it in Ireland S. and the Channel Islands, and slightly exceeded it in Scotland, Ireland N., and England N.E., E., and S. Falls of more than an inch were experienced sometime during the week in many districts.

Bright Sunshine exceeded the mean generally, but was deficient in Scotland E., England S., Ireland S., and the Channel Islands. The percentage of the possible duration ranged from 46 in the Midland Counties and 44 in England S.W., to 32 in Ireland N. and Scotland E., and to 29 in Scotland N.

Barometer and Wind. At the commencement of the week an anticyclone extended from the Eastward over the south-eastern portions of England, and the general current of wind was Southerly and light in force. By Tuesday, however, the high pressure had receded to the Continent, and from this time to the end of the period depressions of considerable size, but little depth, travelled eastwards over our Islands. The winds consequently varied a good deal in direction, sometimes being Southerly and sometimes Northerly or North-Westerly, but they were never of any great force.

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II.—DATA from which the SUMMARY on page 205 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°.	Below 42°.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	59	45	56·6	48·7	52·4	+ 0·8	73	0	7	0·83	+ 0·06	*	*	*	*
	Stornoway	71	46	62·3	50·4	56·0	+ 3·3	98	0	6	0·92	+ 0·03	37·1	+ 9·7	38	+ 10
	Wick	70	44	60·7	49·0	54·5	+ 1·4	88	0	5	0·64	+ 0·04	*	*	*	*
	Lairg 𝔖	75	45	67·9	49·9	58·4	+ 5·5	115	0	5	0·88	+ 0·21	*	*	*	*
	Glencarron 𝔖	78	44	64·0	51·4	57·3	+ 4·5	107	0	7	2·44	+ 0·79	*	*	*	*
	Fort Augustus 𝔖	70	46	64·9	52·1	58·1	+ 3·5	113	0	5	1·63	+ 0·80	23·4	+ 4·1	24	+ 4
	Fort William 𝔖	74	48	64·1	52·8	58·1	+ 3·1	113	0	4	1·69	+ 0·18	24·9	+ 2·4	26	+ 3
	Nairn	73	45	64·7	50·7	57·3	+ 2·9	107	0	6	0·95	+ 0·35	*	*	*	*
1. SCOTLAND, E.	Aberdeen	74	42	64·6	47·0	55·3	+ 1·2	93	0	5	0·96	+ 0·30	33·9	+ 2·1	35	+ 2
	Braemar 𝔖	71	38	64·2	46·1	54·6	+ 3·3	88	0	4	1·19	+ 0·40	*	*	*	*
	Ochtertyre 𝔖	75	45	68·3	51·0	59·1	+ 4·1	120	0	3	1·57	+ 0·73	*	*	*	*
	Leith	71	48	68·3	53·3	60·4	+ 4·1	129	0	5	0·50	- 0·05	*	*	*	*
	Marchmont 𝔖	76	44	66·8	49·9	57·8	+ 3·7	111	0	2	0·46	- 0·30	30·1	- 0·7	31	- 1
2. ENGLAND, N.E.	Alnwick Castle	73	46	68·2	51·0	59·1	+ 4·5	120	0	4	0·44	- 0·22	*	*	*	*
	Durham	79	50	68·3	52·9	60·1	+ 4·2	127	0	3	0·16	- 0·39	29·8	- 0·6	31	- 1
	Shields	76	50	67·0	53·3	59·7	+ 4·0	124	0	2	0·23	- 0·34	*	*	*	*
	Scarborough 𝔐	76	47	69·7	53·2	61·0	+ 4·3	133	0	4	0·37	- 0·22	42·9	—	45	—
	Spurn Head	78	53	66·6	56·4	61·2	+ 3·3	134	0	3	0·83	+ 0·41	*	*	*	*
	Lincoln	81	47	72·1	52·6	61·8	+ 3·7	139	0	3	0·98	+ 0·45	*	*	*	*
	Fulbeck (Lincolnshire)	82	46	72·7	52·9	62·2	+ 5·0	141	0	4	1·57	+ 1·04	47·2	—	50	—
3. ENGLAND, E.	Hillington 𝔐	80	46	71·1	51·2	60·6	+ 2·7	130	0	4	1·30	+ 0·68	38·7	+ 2·9	41	+ 3
	Yarmouth	68	53	64·3	58·0	61·0	+ 2·5	133	0	5	0·45	- 0·10	*	*	*	*
	Geldeston	77	49	68·2	52·0	59·6	+ 1·5	123	0	5	0·65	+ 0·15	40·3	+ 0·6	42	+ 1
	Cambridge	81	48	71·4	50·7	60·4	+ 1·6	129	0	5	1·35	+ 0·85	40·3	+ 1·9	43	+ 2
	Felixstowe	69	50	65·9	56·1	60·7	+ 2·6	131	0	4	0·55	—	37·6	—	40	—
	Clacton-on-Sea	69	50	65·6	57·1	61·1	+ 1·9	134	0	5	0·73	—	44·5†	—	47†	—
	Rothamsted	78	47	68·6	50·8	59·2	+ 1·6	129	0	4	1·00	+ 0·44	42·1	+ 3·7	45	+ 4
	Shoeburyness	72	52	66·3	55·1	60·4	+ 0·5	129	0	4	0·47	+ 0·04	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	76	47	67·9	52·3	59·6	+ 3·7	123	0	1	0·39	- 0·27	46·5	—	49	—
	Bawtry (Hesley Hall)	81	—	72·6	—	—	—	—	—	2	0·27	- 0·24	*	*	*	*
	Nottingham	80	49	71·3	53·3	61·8	+ 4·2	139	0	3	0·59	+ 0·03	44·2	—	47	—
	Colly Weston (Stamford)	84	48	72·3	52·1	61·6	+ 3·4	137	0	3	1·42	+ 0·88	*	*	*	*
	Cheadle 𝔐	76	48	67·8	52·0	59·4	+ 3·8	122	0	2	0·55	- 0·20	*	*	*	*
	Birmingham (Edgbaston)	77	51	68·1	53·7	60·5	+ 3·4	130	0	2	0·33	- 0·29	37·6	—	40	—
	Shrewsbury	78	48	68·6	51·3	59·4	+ 1·8	122	0	4	0·37	—	*	*	*	*
	Hereford 𝔐	77	46	68·3	50·2	58·7	+ 0·9	117	0	3	0·56	0·00	*	*	*	*
	Cirencester	77	45	67·7	50·0	58·3	+ 1·7	114	0	3	0·37	- 0·32	44·0	+ 7·5	47	+ 8
	Oxford	79	50	69·3	52·1	60·2	+ 1·7	127	0	2	0·67	+ 0·13	40·5	+ 2·8	43	+ 3
5. ENGLAND, S.	London	84	51	72·1	53·1	62·0	+ 2·3	140	0	4	1·08	+ 0·57	35·8‡	+ 1·5‡	38‡	+ 2‡
	Wisley (Surrey)	80	47	70·1	51·4	60·2	- 0·4	127	0	4	0·92	—	34·5	—	37	—
	Swarraton (Alresford) 𝔐	77	47	68·1	52·1	59·6	+ 2·7	123	0	4	1·10	+ 0·45	*	*	*	*
	Tunbridge Wells 𝔐	79	50	68·8	52·0	59·9	+ 0·5	125	0	5	1·04	—	36·9	—	39	—
	Dungeness	70	49	66·4	55·7	60·7	+ 0·7	131	0	5	0·75	+ 0·25	30·4	—	32	—
	Hastings (St. Leonards)	76	51	66·4	55·3	60·5	+ 0·7	130	0	5	1·16	+ 0·58	32·5	- 11·0	35	- 12
	Southampton	78	52	69·4	54·8	61·7	+ 1·8	138	0	4	0·91	+ 0·28	39·3	- 2·8	42	- 3
	Portland Bill	67	56	64·6	57·6	60·9	+ 1·3	132	0	4	0·69	—	*	*	*	*
	Shaftesbury 𝔐	74	49	65·7	53·6	59·3	+ 1·8	121	0	4	0·61	- 0·09	*	*	*	*
6. SCOTLAND, W	Laudale (Loch Sunart)	77	46	65·0	51·7	58·0	+ 2·9	112	0	5	1·53	+ 0·09	*	*	*	*
	Glasgow	72	50	64·7	54·5	59·3	+ 4·7	121	0	3	1·58	+ 0·69	27·8	+ 1·8	29	+ 2
	Cally 𝔖	74	46	66·2	49·7	57·5	+ 2·8	109	0	4	1·27	+ 0·23	*	*	*	*
	Aspatria	77	45	67·5	52·9	59·8	+ 4·2	125	0	2	0·63	—	34·8	—	36	—
	Douglas (Isle of Man)	70	46	62·8	53·4	57·8	+ 2·4	111	0	2	0·96	+ 0·11	35·1	- 0·8	37	- 1
7. ENGLAND, N.W.	Newton Rigg	76	46	66·9	49·9	57·9	+ 3·1	111	0	3	0·15	—	36·4	—	38	—
	Stonyhurst	74	48	66·9	53·0	59·5	+ 3·6	123	0	2	0·47	- 0·69	43·6	+ 12·5	46	+ 13
	Blackpool 𝔐	77	52	67·0	54·6	60·4	+ 3·3	129	0	3	0·74	- 0·06	37·2	+ 5·5	39	+ 6
	Manchester (Prestwich)	77	49	69·6	51·4	60·0	+ 3·6	126	0	3	0·74	- 0·12	35·8	—	38	—
	Liverpool Obsy. (Bidston)	78	52	67·9	55·0	61·1	+ 3·1	134	0	3	0·82	+ 0·14	33·7	—	36	—
	Chester (Hawarden Bridge)	79	53	68·9	54·3	61·2	+ 3·0	134	0	3	0·55	—	*	*	*	*
	Llandudno 𝔐	76	53	67·6	55·5	61·2	+ 2·9	134	0	3	0·63	- 0·02	43·7	+ 10·8	46	+ 11
	Holyhead	71	53	65·0	55·1	59·8	+ 1·9	125	0	2	0·93	+ 0·23	*	*	*	*
	Bettws-y-Coed	81	46	68·9	51·4	59·6	+ 1·3	123	0	3	0·77	—	3[illegible]·1	—	37	—
8. ENGLAND, S.W.	Pembroke	71	54	63·4	56·4	59·7	+ 1·8	124	0	3	0·73	+ 0·03	41·5	+ 2·3	44	+ 2
	Clifton	78	50	68·9	55·0	61·5	+ 3·2	137	0	4	0·73	- 0·04	*	*	*	*
	Bath	78	49	68·9	52·6	60·3	+ 1·4	128	0	4	0·52	- 0·13	42·3	—	45	—
	Arlington (N. Devon)	76	52	65·3	55·0	59·8	+ 3·0	125	0	4	0·83	- 0·31	*	*	*	*
	Cullompton 𝔐	78	45	67·5	51·4	59·0	+ 0·6	119	0	4	0·46	- 0·23	3·8	- 3·8	36	- 4
	Falmouth	68	52	64·2	56·0	59·9	+ 1·2	125	0	3	0·55	- 0·32	43·1	+ 0·5	46	+ 1
	Plymouth	73	53	66·4	56·4	61·1	+ 1·9	134	0	3	0·42	- 0·30	44·5	+ 4·1	47	+ 4
9. IRELAND, N.	Malin Head	70	48	62·7	52·1	57·1	+ 0·9	106	0	5	1·41	+ 0·67	*	*	*	*
	Edenfel (Omagh)	73	45	64·9	52·4	58·3	+ 3·7	114	0	4	1·14	+ 0·30	*	*	*	*
	Blacksod Point	69	49	62·4	54·0	58·0	+ 1·2	112	0	6	0·61	- 0·45	*	*	*	*
	Markree Castle	74	47	65·5	52·1	58·4	+ 3·4	115	0	5	0·66	- 0·26	31·0	+ 3·7	33	+ 4
	Armagh	72	44	65·3	51·5	58·0	+ 2·7	112	0	4	1·27	+ 0·57	32·6	+ 4·9	34	+ 5
	Donaghadee	65	50	61·9	52·9	57·1	+ 1·1	106	0	3	1·38	+ 0·68	*	*	*	*
10. IRELAND, S.	Dublin	74	51	68·2	54·7	61·1	+ 3·6	134	0	3	1·00	+ 0·40	43·4	+ 8·3	46	+ 9
	Birr Castle	75	44	66·6	53·0	59·4	+ 3·2	122	0	3	0·54	- 0·23	27·2	- 3·5	29	- 4
	Kilkenny	73	48	65·4	53·3	59·0	+ 2·0	119	0	4	1·13	+ 0·42	*	*	*	*
	Waterford	73	49	65·7	51·0	57·9	+ 0·8	111	0	3	1·93	+ 1·11	*	*	*	*
	Roche's Point	68	52	64·0	55·4	59·4	+ 1·4	122	0	2	0·39	- 0·46	*	*	*	*
	Valencia	71	52	63·7	55·1	59·1	+ 1·2	120	0	5	0·93	- 0·12	19·6	- 13·1	21	- 14
	Killarney	76	50	68·6	55·4	61·6	+ 4·4	137	0	2	0·09	- 0·89	*	*	*	*
	Foynes	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	67	54	63·9	55·7	59·6	- 0·1	123	0	3	0·44	- 0·20	38·6	- 7·4	41	- 8
	Jersey	79	55	68·9	57·9	63·1	+ 1·4	148	0	6	0·85	+ 0·22	37·1	- 11·5	40	- 12

Stations Marked 𝔐 are in connection with the Royal Meteorological Society, and those marked 𝔖 with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

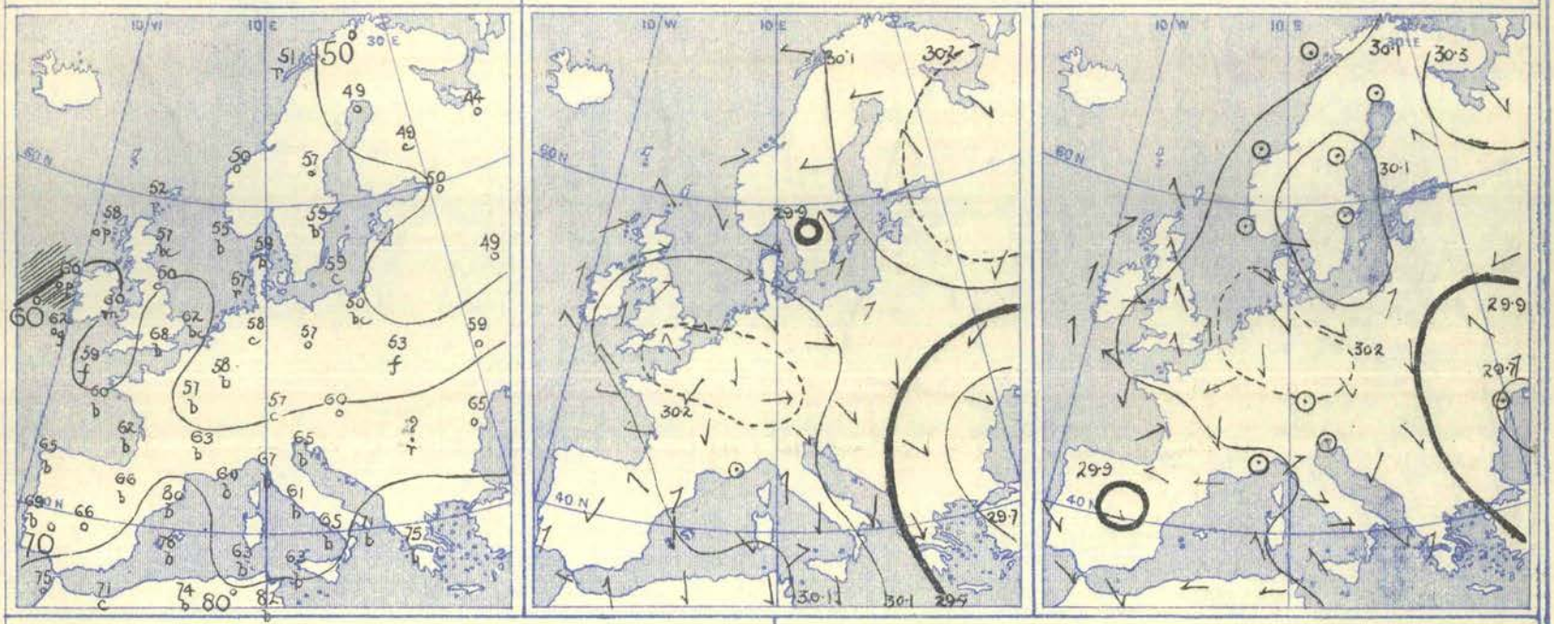
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 28th August, 1904.

Temperature and Weather. — 8 a.m.

Barometer and Wind. — 8 a.m. | 6 p.m.



Weather at 8 a.m. cloudy or dull, with rain in places, over the eastern half of Europe; mostly fine elsewhere, but rain falling at some Scotch and Irish stations, and fog prevailing over the English Channel. Very little rain falling later, except small or moderate amounts in Scotland, Scandinavia, and Russia.

Temperature risen in most regions. Morning readings ranging from 80° at Barcelona and above 70° at some other southern stations to 68° in London, to below 60° over the greater part of the Continent, and to below 50° in the north. Lowest value, 44° at Archangel. Rising later to 82° in London, and to a similar or higher value in the west of France and in different parts of southern Europe. Maxima below 70° at most stations in Germany and central Europe.

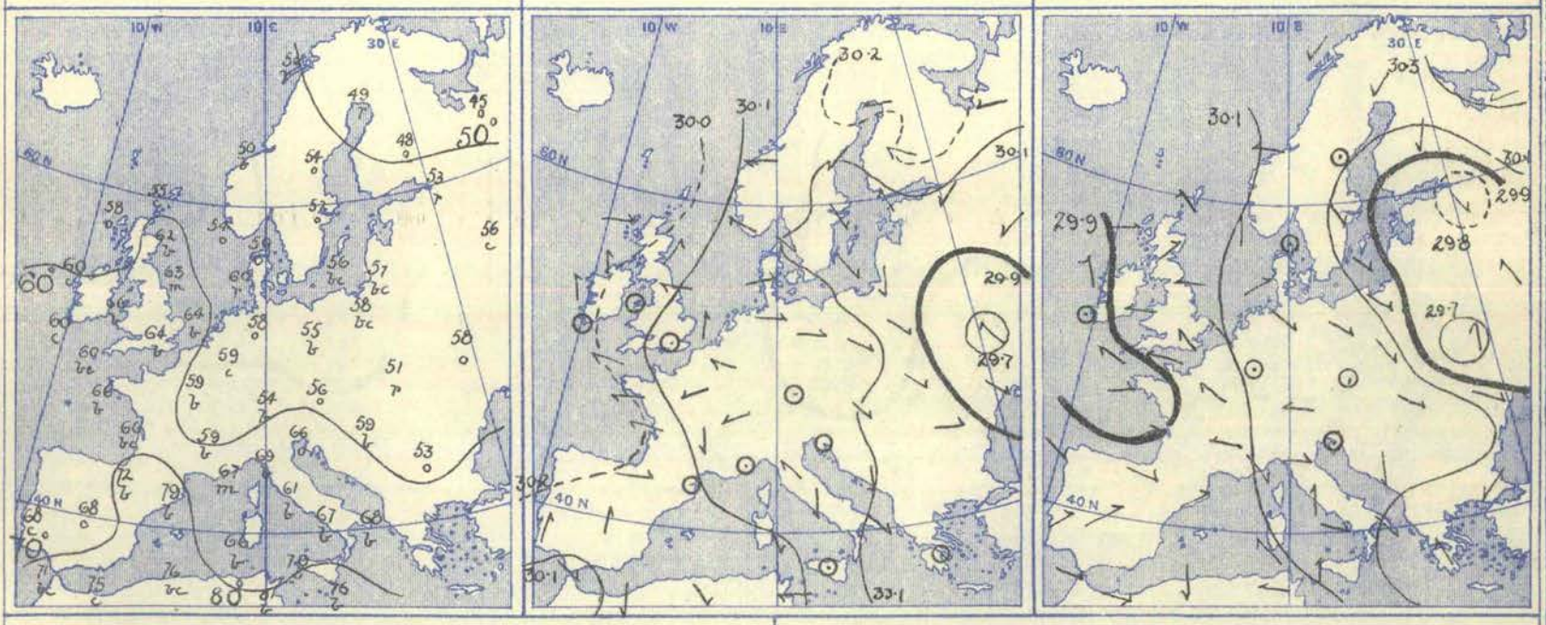
Wind in morning light and anticyclonic over north-eastern Europe, and also in most of the western and south-western regions; moderate to light cyclonic circulations prevailing over the south-east of Europe and over Scandinavia. No general change taking place later.

Barometer at 8 a.m. highest, 30·2 ins. and upwards (1) in an anticyclone extending from central Germany to the south of England, and (2) in another system over the northern half of Russia. Lowest, 29·7 ins. and less in a depression over the Black Sea. Below 29·9 ins. in a smaller disturbance over the south of Sweden. Both high and low pressure systems moving eastwards later, and a rather decided fall of the mercury taking place over the Bay of Biscay and the west of France.

Monday, 29th August, 1904.

Temperature and Weather. — 8 a.m.

Barometer and Wind. — 8 a.m. | 6 p.m.



Weather at 8 a.m. cloudy or overcast at most stations in Ireland, Scotland, the Spanish Peninsula, and in the eastern half of the Continent. Generally fine elsewhere. Rainy in the north of Scandinavia. As much as 1·6 ins. of rain falling later at St. Petersburg, and small amounts at some other stations in northern Europe and in a few British localities. Thunderstorms occurring at Pembroke and in the west and south of France.

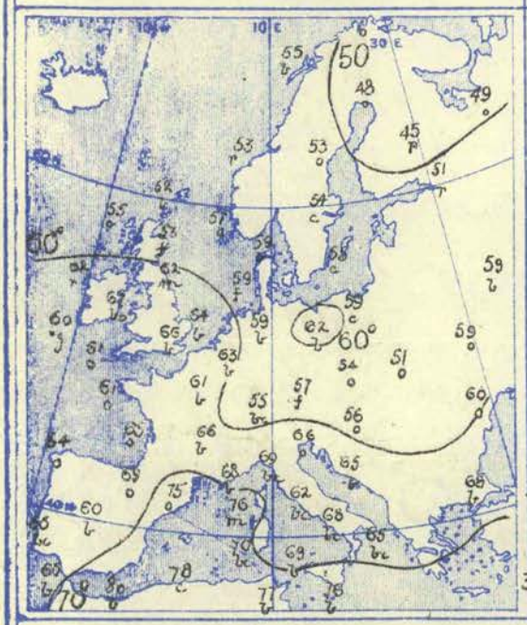
Temperature changed rather irregularly. Morning readings ranging from 79° at Barcelona, 76° at Malta, and about 70° or a little higher at some other southern stations, to 66° at Holyhead, 62° at Aberdeen, to below 60° over Europe generally, and to 50° or below in the extreme north. Lowest reading, 45° at Archangel. Maxima during day, 84° in London and 80° at some Welsh stations, 91° at Madrid, and 96° at Limoges. Maximum only 66° at Munich and 61° at Lemberg.

Wind at 8 a.m. showing two main circulations—one anticyclonic around Germany, the other cyclonic over the southern half of Russia and its vicinity. Another cyclonic movement setting in over the Bay of Biscay and our south-western coasts later in day, and a separate circulation also being developed over the north of Russia.

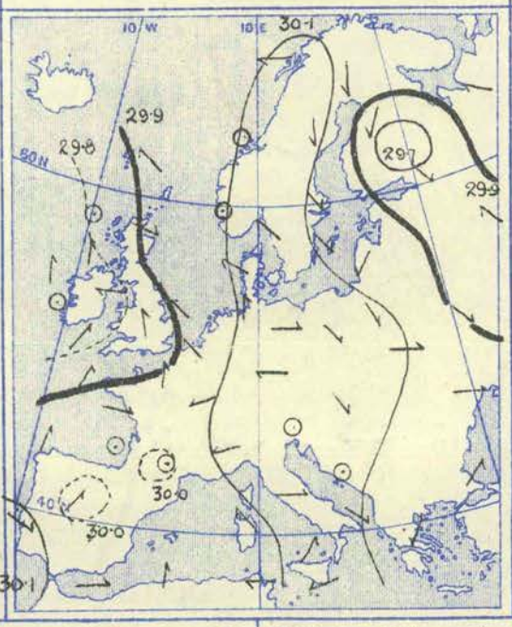
Barometer at 8 a.m. ranging from above 30·2 ins. in Lapland, and in a well-defined high pressure area centred over the west of Germany and its neighbourhood, to less than 30·0 ins. along the western seaboard of these Islands and France, and to less than 29·7 ins. in a depression near Kharkov. A decided fall of the barometer taking place on our south-western coasts and in Brittany later, and another baric minimum forming near St. Petersburg.

Tuesday, 30th August, 1904.

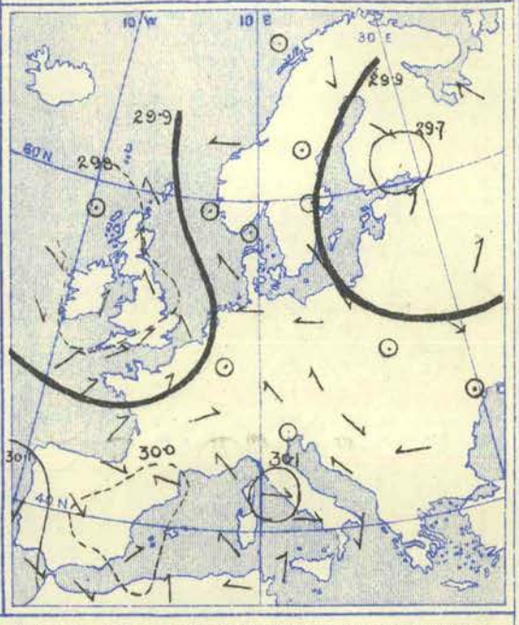
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. varying a good deal in different parts of our area, but cloudy or overcast in most places, rainy in Finland and the north of Russia, as well as at Blacksod Point, thunder reported from the south of England and at Jersey, and fog prevailing along the east coast of Scotland. Thunderstorms occurring later in many parts of Great Britain and France, and rain falling in Russia and Finland. Heaviest rains, 1·1 ins. at Lorient and 1·4 ins. at Dunkirk.

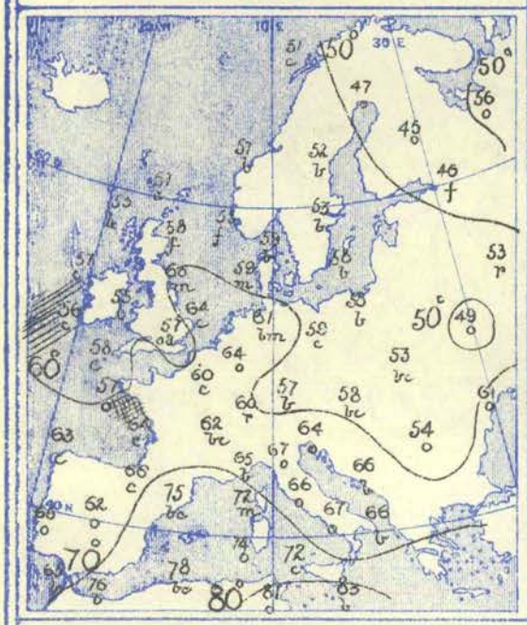
Temperature changed irregularly, but fallen in most places. Morning readings highest, 80° at Oran, 76° at Malta, and 70° or above at a few other southern stations. Lowest, 45° at Kuopio, 50° at Warsaw, 51° at Karlstad, 52° at Sumburgh Head, and 53° at Aberdeen. Rising during day to 80° over central England, 83° in London, 85° at Brussels, and to above 80° at many southern stations. Highest readings, 86° at Palma and Athens, and 95° at Tunis and Sfax.

Wind at 8 a.m. light or moderate in force and rather variable in direction, but mainly cyclonic over Russia and the British Isles, and anticyclonic over the intervening regions. No general change later, but wind veering to the Northward in Ireland.

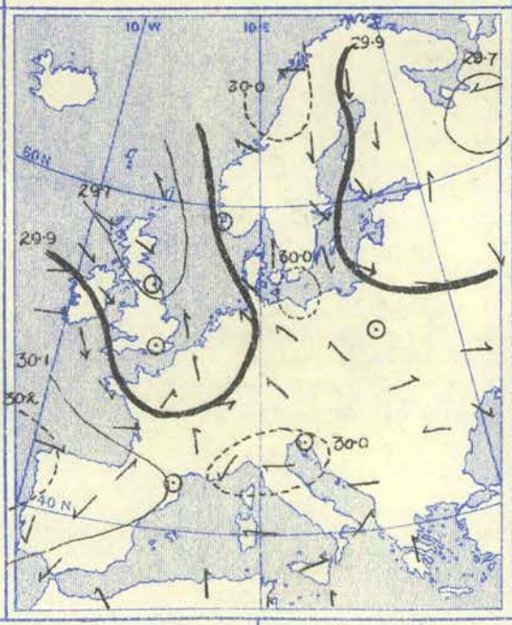
Barometer at 8 a.m. ranging from above 30·1 ins. in a long narrow area extending from the central parts of the Mediterranean to within the Arctic Circle to less than 29·8 ins. in a depression advancing over our western districts, and to below 29·7 ins. in a disturbance over Finland. Western depression travelling slowly eastwards by evening, and barometer rising again in the west of Ireland.

Wednesday, 31st August, 1904.

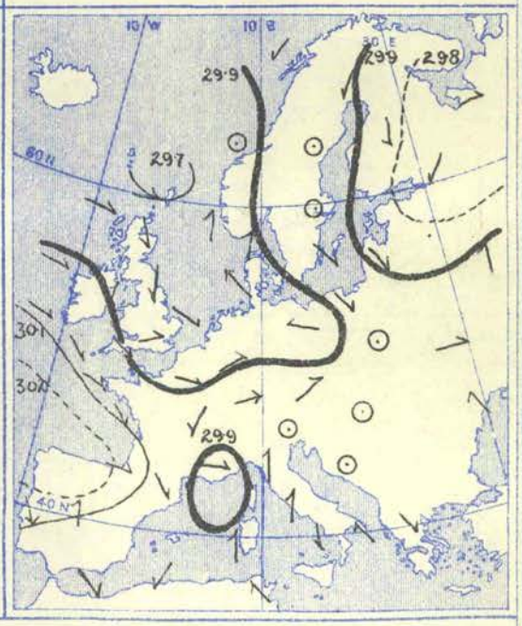
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. fine and bright in several southern localities and in Sweden, but cloudy or overcast generally, with fog at Skudesnaes and on the east coast of Scotland, and rain in many parts of England and at Moscow and Belfort. Rain falling later in most parts of our Islands and the nearer parts of the Continent, and also in the north of Italy and at Trieste. Largest amounts, 1·7 ins. at the station just named, 0·9 in. at Florence, 0·8 in. in London, and 0·5 in. at Spurn Head, Oxford, and Utrecht.

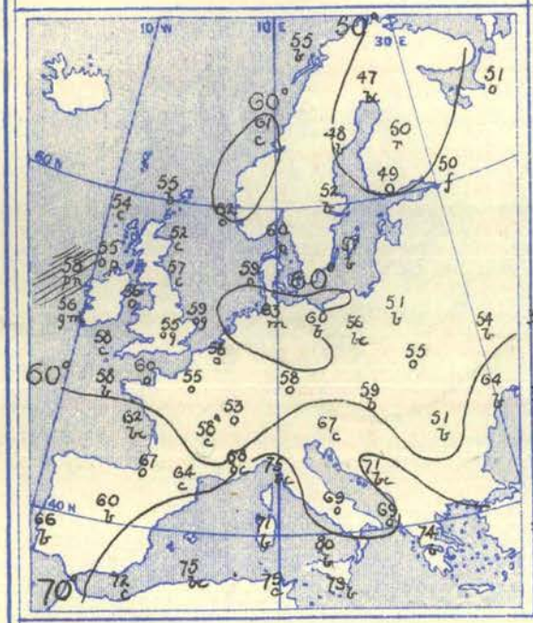
Temperature fallen over our Islands and France, changed irregularly or risen elsewhere. Readings in morning highest, 83° at Malta, 80° at Palma, and above 70° on other shores of the Mediterranean. Lowest, 45° at Kuopio, and below 50° over Finland generally; 51° at Bodö, 53° at Stornoway, 49° at Kiev, and 54° at Hermanstadt. Only rising to 61° during day in London, but touching 71° at Leith, and exceeding 80° in various southern localities. Highest readings, 88° at Palma and 100° at Tunis.

Wind at 8 a.m. showing a cyclonic circulation around Great Britain, the North-Westerly wind in the west being fresh or strong. Light or moderate in force and variable in direction over the greater part of our area. Little change later, except the development of a cyclonic movement over the Mediterranean.

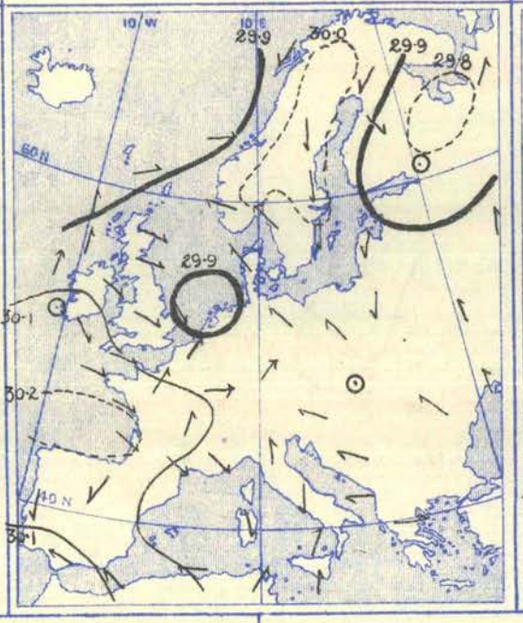
Barometer at 8 a.m. highest, 30·1 ins. to 30·2 ins. in an anticyclone over the Iberian Peninsula, and above 30·0 ins. in the north of Norway and the western part of the Baltic. Lowest, 29·8 ins. to below 29·7 ins. in depressions over northern Russia and Great Britain. Latter moving eastwards later, and Spanish anticyclone spreading northwards. A cyclonic disturbance forming over the Gulf of Genoa and its neighbourhood.

Thursday, 1st September, 1904.

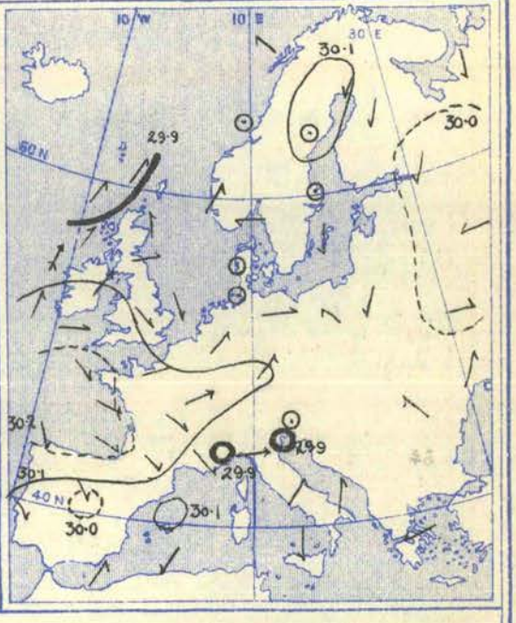
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in Sweden and in various parts of southern Europe; cloudy or overcast over our area as a whole, with showers in the north-west of Ireland, and rain at Memel and Kuopio. Rain experienced later in many parts of our Islands and the Continent. Not in large amounts generally, but half an inch at Vienna and Trieste.

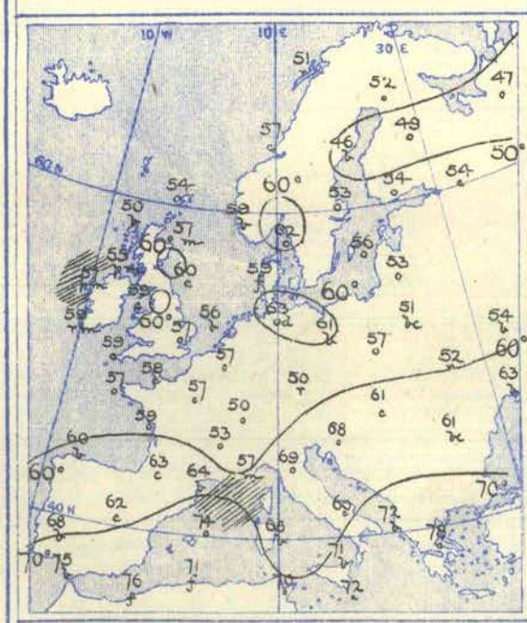
Temperature changed irregularly. Morning readings ranging from 80° at Malta, 76° at Palma, 74° at Patras, and about 70° at many other Mediterranean stations, to below 60° in most of the northern countries, and to below 50° in places. Rising later to 66° at Scarborough, Leith, and Jersey.

Wind at 8 a.m. anticyclonic in the south-western part of our area, and cyclonic or variable elsewhere. North-North-Westerly winds moderate to fresh in England, and strong breezes from various directions prevailing at a few Mediterranean stations, and a South-South-Westerly breeze at Blacksod Point. Increasing to a Southerly gale in the north-west of Ireland by evening, and wind backing along our west coasts generally.

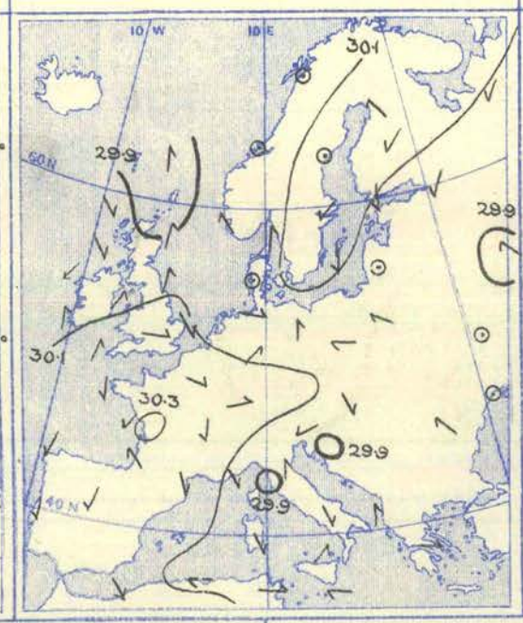
Barometer at 8 a.m. highest, above 30·2 ins. in an anticyclone centred over the Bay of Biscay, and above 30·0 ins. over Sweden. Lowest, 29·8 ins. and less in a depression over the north of Russia, and 29·9 ins. and less in another having its centre between Norfolk and Holland. Below 30·0 ins. in a large area including Italy and its vicinity. A fresh depression approaching Ireland during day, but that over the North Sea dispersing.

Friday, 2nd September, 1904.

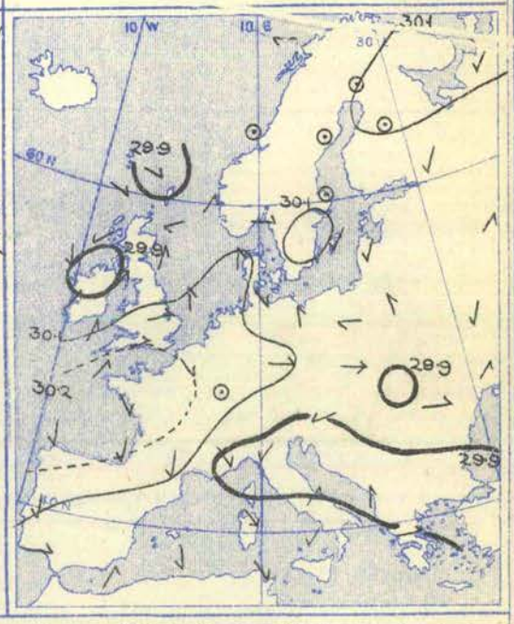
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull except in the most southern regions. Rain falling in Ireland, Scotland, at Bodö, Bilbao, Ulealborg, and at several stations in central Europe. Rain becoming very general over our Islands later—0·72 in. at Liverpool, 0·75 in. at Aberdeen, and 0·95 in. at Donaghadee. Rain also falling in various parts of France, Germany, and on some shores of the Mediterranean and Adriatic, as well as at Moscow. Largest amount, 1·5 in. at Lesina.

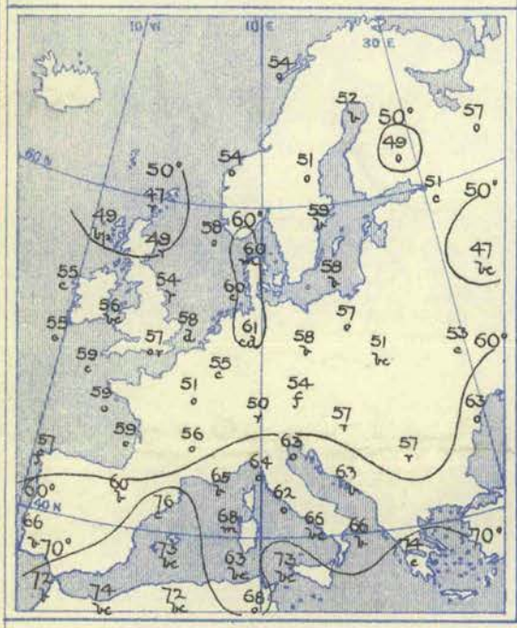
Temperature showing no decided change. Morning readings highest, 78° at Patras, 76° at Oran, 75° at San Fernando, and 74° at Palma. Lowest, (1) 45° at Limoges, (2) 46° at Hernösand, 47° at Archangel, (3) 50° at Stornoway, (4) 51° at Warsaw, and 52° at Lemberg. Rising later to 68° at Manchester, 70° at Brighton, above 70° in many parts of France and central Europe, and to above 80° in a few southern regions. Highest readings, 89° at San Fernando and Aumale.

Wind in morning light in force and very variable in direction. Mainly anticyclonic in the south-western countries and Scandinavia, and cyclonic elsewhere. Cyclonic circulation becoming more accentuated later over Ireland and its vicinity, and some increase in force taking place in most parts of the United Kingdom.

Barometer at 8 a.m. ranging from above 30·2 ins. in an anticyclone over the Bay of Biscay and its vicinity, and above 30·1 ins. over Sweden and Finland, to below 29·9 ins. (1) in a depression over central Russia, and (2) over the north of Scotland. Another depression approaching Ireland. Southern anticyclone extending slowly eastwards and north-eastwards during day, and depression in west entirely covering Ireland by 6 p.m.

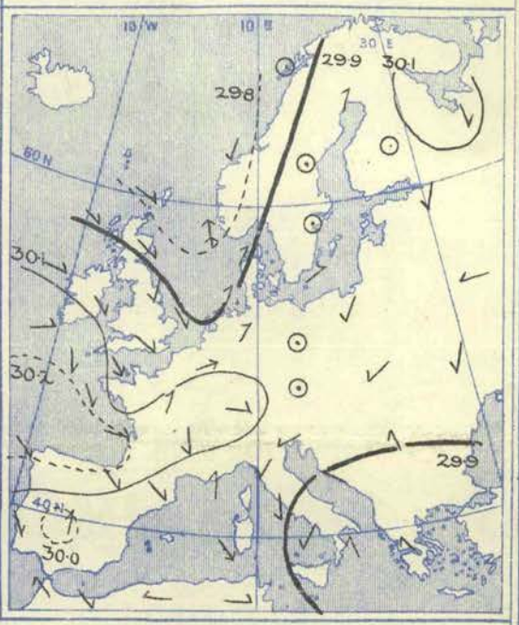
Saturday, 3rd September, 1904.

Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.

Barometer and Wind. 6 p.m.



Weather at 8 a.m. unsettled and rainy over Great Britain, and cloudy or overcast in most Continental regions, with rain at Pesaro, Buda-Pesth, Hermanstadt, and Munich. Fair in Ireland, the southern portions of Sweden and Italy, and in Algeria. Fog prevailing at Corunna and Oporto. Rain later in our Islands and many Continental regions—0·55 in. at Buda-Pesth—but weather continuing dry over the Iberian Peninsula.

Temperature fallen in most places. Morning readings ranging from 76° at Barcelona, 74° at Nemours and Patras, and 73° at Palermo, to 60° at Skagen, 51° at Paris and St. Petersburg, 50° at Munich, and to 47° at Sumburgh Head and Moscow. Rising subsequently to 67° at Bath, 72° at Stockholm, Berlin, and Biarritz, and to above 80° further south. Highest value, 88° at Madrid.

Wind at 8 a.m. cyclonic very generally, but anticyclonic over the Bay of Biscay and the Spanish Peninsula. Strong from North-West at some of our own western stations, and from the South-Westward over the English Channel. Little force elsewhere. Little change of importance taking place later generally, but a fresh Southerly gale setting in at Skudesnaes.

Barometer at 8 a.m. ranging from above 30·2 ins. in an anticyclone over the Bay of Biscay, and 30·1 ins. in the north of Russia, to less than 29·9 ins. in a large shallow area over south-eastern Europe, and to below 29·8 ins. in a large "V" shaped disturbance having its minimum off the north-east of Scotland. Latter system reaching the North Sea by 6 p.m. and the Continent later. High pressure over the Bay of Biscay extending northwards.

IV.—GENERAL NOTES, etc.

At the commencement of the week a well-defined anticyclone extended from the south of England to Germany while another high pressure area of similar intensity (30·2 ins. and upwards) lay over the north of Russia. Both systems soon moved eastwards, and for two or three days a long band of relatively high pressure stretched from Italy or its vicinity northwards to the north of Scandinavia. Depressions were in the meantime shown over the south-east or east of Europe, over the Bay of Biscay, and off, or over, our western districts. One of these systems passed eastwards over our Islands during Wednesday, and by Thursday had reached the Netherlands and the north-west of Germany, the band of high pressure gradually moving eastwards and dispersing. During the last few days of the week another anticyclone appeared over the Bay of Biscay and the adjacent parts of the Continent, while further disturbances travelled eastwards over the United Kingdom and the North Sea to the Continent, and there were also some ill-defined depressions of little intensity in the Mediterranean region. Not much rain was experienced during the early days of the period, but subsequently large amounts fell except in Spain, Scandinavia, and various parts of southern Europe and Algeria. Temperature was higher than the preceding week in several localities, but a decrease in the height of the maximum readings took place at most stations in the south of Europe. The wind varied much in direction, but was, as a whole, moderate or light in force.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 206.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	21·1	− 4·8	22	− 5
STRATHPEFFER SPA	32·7	+ 5·7	34	+ 6
CRATHES	40·6	—	42	—
EDINBURGH	20·6	− 7·6	22	− 8
COCKLE PARK	35·7	—	37	—
NEWCASTLE-on-TYNE	27·5	—	29	—
YORK	45·4	+ 14·9	48	+ 16
SKEGNESS	42·3	—	45	—
CROMER	38·3	—	40	—
LOWESTOFT	—	—	—	—
DUNMOW	39·2	—	42	—
SHEFFIELD	47·7	—	50	—
WORKSOP	44·8	+ 14·5	47	+ 15
THURCASTON	41·5	+ 8·4	44	+ 9
MARGATE	43·8	+ 5·5	47	+ 6
BROADSTAIRS	43·7	—	47	—
RAMSGATE	44·4	—	47	—
EASTBOURNE	29·5	− 15·3	32	− 14
BRIGHTON	33·2	− 10·8	35	− 12
WORTHING	34·7	—	37	—
BOGNOR	43·2†	—	46†	—
WESTBOURNE	41·2†	− 1·4	44†	− 2
VENTNOR HOSPITAL	31·0	− 12·7	33	− 14
BOURNEMOUTH	42·3	—	45	—
MARLBOROUGH	34·8	− 0·7	37	− 1
SOUTHPORT	34·5	—	36	—
RHYL	—	—	—	—
ABERDOVEY	47·9†	—	50†	—
TENBY	42·2	+ 2·5	45	+ 3
TORQUAY	36·8	− 5·7	39	− 6
NEWQUAY	42·1	+ 0·7	45	+ 1
GUERNSEY	39·5†	− 9·0	43†	− 10

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 18, page 104	Hillington	—	—	—	41·3	48·4	− 0·1	—	2	—	—	—	—	—	—	—
" " "	Hereford	—	—	—	39·2	47·1	− 2·3	—	8	—	—	—	—	—	—	—
" " "	Swarraton	—	—	—	—	—	—	—	—	5	0·49	+0·05	—	—	—	—
" " "	Glasgow	—	—	—	40·9	46·0	− 1·5	33	—	—	—	—	—	—	—	—
" " "	Jersey	—	—	—	—	—	—	—	—	—	—	—	46·6	−5·4	46	− 5
No. 19, page 110	Scarborough	—	—	—	42·8	48·7	+ 0·5	47	—	—	—	—	—	—	—	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 36. THIRTY-SIXTH WEEK, ENDING SATURDAY, SEPTEMBER 10TH, 1904. *Price 6d. Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

DISTRICTS (See p. 212.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
	°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	68	40	59·0	47·1	52·8	0 (average)	76	+ 5	0	− 1	1594	+ 1	477	− 74
1. SCOTLAND, EAST	69	37	60·9	47·0	53·6	0 (average)	81	+ 1	0	0	1768	−138	585	− 7
2. ENGLAND, N.E.	74	41	63·9	50·0	56·6	1 above	102	+10	0	0	2159	+ 99	431	− 59
3. ENGLAND, EAST	74	40	65·2	50·4	57·4	0 (average)	108	+ 4	0	0	2427	+ 38	404	−131
4. MIDLAND COUNTIES	79	37	64·0	48·3	55·7	1 below	96	− 2	0	0	2257	−115	474	− 73
5. ENGLAND, SOUTH	75	35	64·5	50·1	56·9	2 below	104	−11	0	0	2473	−122	345	− 52
Principal Grazing Districts. 6. SCOTLAND, WEST	70	40	61·5	48·9	54·9	1 above	90	+ 5	0	0	1925*	− 83	375	− 42
7. ENGLAND, N.W.	69	37	62·6	50·3	56·2	0 (average)	99	+ 3	0	0	2113	− 83	386	− 13
8. ENGLAND, S.W.	70	38	63·6	50·5	56·8	1 below	104	− 1	0	0	2409	− 14	252	− 58
9. IRELAND, NORTH	65	37	60·0	47·8	53·6	1 below	81	− 8	0	0	1948	−183	337	− 20
10. IRELAND SOUTH	72	40	61·7	49·8	55·5	1 below	95	− 3	0	0	2304	−111	232	− 24
— CHANNEL ISLANDS	72	51	63·7	53·7	58·5	2 below	116	− 8	0	0	2741	− 9	80	− 41

Rainfall. Bright Sunshine.

DISTRICTS. (See p. 212.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
		10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	6	21	10 more	169	+18	35·8	+ 5·1	26	+ 2	28	+ 3	952	+ 30	28	+ 1
1. SCOTLAND, EAST	5	6	1 less	146	+15	20·2	− 0·1	29	+ 4	31	+ 4	981	− 81	29	− 2
2. ENGLAND, N.E.	2	2	3 less	121	+ 1	15·6	− 0·7	41	+12	45	+13	1116	− 52	33	− 2
3. ENGLAND, EAST	2	3	2 less	115	− 5	14·7	− 0·9	42	+ 5	46	+ 6	1300	− 1	39	0
4. MIDLAND COUNTIES	2	2	4 less	127	+11	18·3	+ 0·3	42	+ 9	46	+ 9	1111	+ 14	33	0
5. ENGLAND, SOUTH	3	4	3 less	127	+15	18·6	+ 1·0	41	+ 2	45	+ 2	1294	+ 16	39	+ 1
Principal Grazing Districts. 6. SCOTLAND, WEST	5	18	8 more	148*	+13	35·1*	+ 3·7	42	+ 9	46	+ 9	1044*	− 68	31	− 2
7. ENGLAND, N.W.	4	6	2 less	142	+16	22·1	+ 0·5	44	+14	48	+15	1143	+ 72	34	+ 2
8. ENGLAND, S.W.	3	6	2 less	140	+13	26·6	+ 3·0	37	0	41	0	1232	− 94	37	− 3
9. IRELAND, NORTH	6	9	2 more	177	+23	28·0	+ 4·6	27	+ 1	30	+ 1	973	− 41	29	− 1
10. IRELAND SOUTH	5	16	8 more	157	+18	29·5	+ 3·4	30	− 3	32	− 3	1084	− 64	32	− 2
— CHANNEL ISLANDS	4	8	1 more	156	+27	24·1	+ 4·7	39	− 5	44	− 5	1435	− 92	43	− 3

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was very unsettled in Ireland and Scotland, with almost daily falls of rain. Over England the conditions were finer, the rain being slighter and confined to the middle part of the period. Thunderstorms were experienced at some stations in the north-west of England on the 6th, and in some northern and eastern localities on the 7th.

Temperature differed little from the mean as a whole, but was 2° below it in England S. and the Channel Islands. The highest of the maxima occurred at most stations on the 5th, and ranged from 79° in the Midland Counties to 68° in Scotland N. and to 65° in Ireland N. The lowest of the minima were registered on rather irregular dates, but mostly either on the 4th or 10th. In England S. (at Swarraton) the thermometer fell to 35°, while elsewhere the minima ranged from 37° in Scotland E., Ireland N., the Midland Counties, and England N.W., to 41° in England N.E., and to 51° in the Channel Islands.

Rainfall greatly exceeded the normal in Scotland N. and W. and in Ireland S., and slightly in Ireland N. and the Channel Islands; elsewhere the fall was less than the mean. More than an inch was measured in the north-west of Scotland on the first day or two, and in the south of Ireland later in the week. At Fort William on the 5th the gauge yielded 1·98 ins., the total fall for the week at that station amounting to as much as 5·05 ins.

Bright Sunshine was in excess of the mean generally, but just equal to it in England S.W. and below it in Ireland S. and the Channel Islands. The percentages of the possible duration ranged from 48 in England N.W. to 30 in Ireland N., and to 28 in Scotland N.

Barometer and Wind. At the commencement of the week an anticyclonic ridge stretched over England from the southward, while a depression was approaching Ireland. By Monday the high pressure had moved away eastwards, and the depression in the west extended over the entire Kingdom, causing fresh Southerly winds generally, and a gale in the north-west of Ireland. During the remainder of the week rather large disturbances of a "V" shaped type passed eastwards with their minima over the north of Scotland. The Southerly and Westerly winds accompanying these systems were sometimes strong, especially on our extreme north-west coasts, where moderate to fresh gales were experienced. At the end of the week an anticyclone was moving northwards over our western districts.

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II.—DATA from which the SUMMARY on page 211 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	58	45	57·0	48·7	52·7	+ 1·7	75	0	7	0·70	− 0·08	*	*	*	*
	Stornoway	61	43	57·9	47·6	52·5	+ 0·7	74	0	7	1·47	+ 0·54	32·3	+ 5·9	35	+ 6
	Wick	63	42	60·0	45·7	52·5	+ 0·1	74	0	6	0·67	+ 0·06	*	*	*	*
	Lairg ℌ	67	40	59·9	44·4	51·8	− 0·2	69	0	6	0·79	+ 0·09	*	*	*	*
	Glencarron ℌ	68	45	59·3	48·3	53·5	+ 1·6	81	0	7	3·96	+ 2·23	*	*	*	*
	Fort Augustus ℌ	64	41	59·3	46·4	52·5	− 1·4	74	0	6	1·71	+ 0·84	21·1	+ 2·2	23	+ 2
	Fort William	62	44	59·5	48·8	53·9	− 0·2	83	0	6	5·05	+ 3·45	21·1	− 1·5	23	− 2
1. SCOTLAND, E.	Nairn	66	41	61·0	46·4	53·4	− 0·2	80	0	4	0·60	+ 0·01	*	*	*	*
	Aberdeen	64	42	60·0	48·6	54·0	+ 0·6	84	0	5	0·33	− 0·32	29·9	− 0·7	32	− 1
	Braemar ℌ	61	37	56·0	43·2	49·3	− 0·9	51	0	5	0·54	− 0·22	*	*	*	*
	Ochtertyre ℌ	66	39	61·4	46·3	53·5	− 0·4	81	0	6	1·97	+ 1·14	*	*	*	*
	Leith	69	45	65·3	49·6	57·1	+ 1·6	106	0	4	0·15	− 0·38	*	*	*	*
	Marchmont ℌ	66	41	61·6	47·7	54·3	+ 1·3	86	0	4	0·18	− 0·56	35·5	+ 6·9	39	+ 8
2. ENGLAND, N.E.	Alnwick Castle	71	41	63·8	48·8	55·9	+ 2·0	97	0	2	0·07	− 0·56	*	*	*	*
	Durham	69	43	62·6	47·7	54·8	0·0	90	0	2	0·10	− 0·43	35·1	+ 6·3	38	+ 7
	Shields	71	44	63·6	48·3	55·6	+ 0·9	95	0	4	0·33	− 0·20	*	*	*	*
	Scarborough ℳ	72	46	63·9	50·8	57·0	+ 1·2	105	0	2	0·46	− 0·11	39·1	—	43	—
	Spurn Head	66	50	63·4	53·3	58·1	+ 0·9	113	0	2	0·58	+ 0·17	*	*	*	*
	Lincoln	74	43	65·2	50·6	57·6	+ 0·3	109	0	1	0·03	− 0·46	*	*	*	*
	Fulbeck (Lincolnshire)	74	44	64·8	50·2	57·2	+ 0·9	106	0	1	0·03	− 0·47	45·4	—	49	—
3. ENGLAND, E.	Hillington ℳ	74	40	65·6	46·6	55·6	− 1·3	95	0	2	0·08	− 0·52	40·8	+ 7·2	45	+ 8
	Yarmouth	66	46	63·6	52·0	57·5	0·0	109	0	2	0·54	− 0·03	*	*	*	*
	Geldeston	70	43	66·7	49·4	57·6	+ 0·4	109	0	2	0·46	− 0·07	39·3	+ 1·1	43	+ 1
	Cambridge	74	40	65·3	47·9	56·2	− 1·6	99	0	3	0·06	− 0·42	40·7	+ 4·4	45	+ 5
	Felixstowe	68	44	64·9	52·9	58·6	+ 1·6	116	0	2	0·38	—	35·0	—	39	—
	Clacton-on-Sea	68	46	64·6	52·6	58·3	0·0	114	0	2	0·50	—	43·8†	—	48†	—
	Rothamsted	72	42	64·6	49·0	56·4	− 0·1	101	0	3	0·17	− 0·40	44·2	+ 8·8	49	+ 10
	Shoeburyness	72	45	65·9	53·0	59·1	+ 0·1	120	0	3	0·33	− 0·12	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	70	42	62·9	48·1	55·1	+ 0·2	92	0	3	0·15	− 0·49	48·1	—	52	—
	Bawtry (Hesley Hall)	79	—	66·0	—	—	—	—	—	1	0·02	− 0·46	*	*	*	*
	Nottingham	73	43	65·3	49·1	56·8	+ 0·1	104	0	2	0·08	− 0·48	43·6	—	47	—
	Colly Weston (Stamford)	74	43	65·1	48·9	56·6	− 0·6	102	0	2	0·06	− 0·49	*	*	*	*
	Cheadle ℳ	70	43	62·1	48·3	54·9	+ 0·2	90	0	3	0·32	− 0·41	*	*	*	*
	Birmingham (Edgbaston)	69	44	63·3	49·4	56·0	− 0·2	98	0	2	0·16	− 0·44	36·7	—	40	—
	Shrewsbury	68	40	64·2	48·3	55·9	− 0·7	97	0	2	0·33	—	*	*	*	*
	Hereford ℳ	67	39	65·0	47·8	56·0	− 0·6	98	0	3	0·23	− 0·34	*	*	*	*
	Cirencester	69	37	63·3	45·4	53·9	− 1·9	83	0	3	0·42	− 0·26	37·7	+ 3·7	41	+ 4
	Oxford	70	43	64·4	49·4	56·5	− 0·9	102	0	2	0·15	− 0·40	39·7	+ 4·1	44	+ 5
5. ENGLAND, S.	London	75	44	66·3	50·0	57·8	− 1·0	111	0	3	0·37	− 0·13	38·7‡	+ 7·0‡	43‡	+ 8‡
	Wisley (Surrey)	71	41	64·7	49·5	56·7	− 3·2	103	0	3	0·54	—	42·8	—	47	—
	Swarraton (Alresford) ℳ	70	35	63·4	46·0	54·3	− 1·8	86	0	3	0·34	− 0·32	*	*	*	*
	Tunbridge Wells ℳ	72	41	64·6	48·1	56·0	− 2·9	98	0	4	0·50	—	46·0	—	51	—
	Dungeness	69	42	65·9	51·4	58·3	− 0·6	114	0	3	0·32	− 0·22	41·8	—	46	—
	Hastings (St. Leonards)	68	46	64·0	51·1	57·2	− 2·0	106	0	4	0·57	− 0·04	42·7	+ 1·2	47	+ 1
	Southampton	71	44	66·4	50·6	58·1	− 1·0	113	0	3	0·33	− 0·31	41·7	+ 2·3	46	+ 3
	Portland Bill	66	49	63·0	54·4	58·5	− 0·4	116	0	5	0·20	—	*	*	*	*
	Shaftesbury ℳ	66	45	62·5	49·6	55·7	− 0·8	96	0	3	0·13	− 0·62	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	61	44	59·4	47·9	53·4	− 0·8	80	0	7	4·21	+ 2·66	*	*	*	*
	Glasgow	63	46	59·7	50·1	54·7	+ 1·0	89	0	6	1·53	+ 0·66	32·2	+ 7·7	35	+ 8
	Cally ℌ	65	40	63·6	46·8	54·8	+ 1·1	90	0	4	1·48	+ 0·45	*	*	*	*
	Aspatria	70	45	63·6	49·8	56·4	+ 1·5	101	0	3	0·30	—	50·3	—	55	—
	Douglas (Isle of Man)	63	40	61·1	49·7	55·1	+ 0·6	92	0	5	1·67	+ 0·84	44·4	+ 9·7	48	+ 11
7. ENGLAND, N.W.	Newton Rigg	63	37	60·2	47·0	53·3	− 0·6	79	0	3	0·26	—	40·0	—	44	—
	Stonyhurst	66	45	60·7	49·5	54·8	− 0·2	90	0	5	0·25	− 0·88	41·8	+ 11·5	45	+ 13
	Blackpool ℳ	69	46	62·2	51·8	56·8	+ 0·6	104	0	4	1·55	+ 0·73	50·2	+ 20·0	55	+ 22
	Manchester (Prestwich)	69	41	63·3	48·6	55·6	+ 0·4	95	0	5	0·31	− 0·56	41·9	—	46	—
	Liverpool Obsy. (Bidston)	68	47	62·7	51·3	56·7	− 0·2	103	0	5	1·07	+ 0·37	50·2	—	55	—
	Chester (Hawarden Bridge)	69	43	64·2	50·6	57·1	− 0·2	106	0	3	0·24	—	*	*	*	*
	Llandudno ℳ	67	49	63·9	52·9	58·1	+ 0·6	113	0	3	0·14	− 0·53	40·9	+ 9·9	45	+ 11
	Holyhead	64	50	62·0	52·4	57·0	− 0·1	105	0	4	1·11	+ 0·41	*	*	*	*
	Bettws-y-Coed	67	42	64·1	48·9	56·1	− 1·6	99	0	3	0·58	—	39·0	—	42	—
8. ENGLAND, S.W.	Pembroke	63	51	60·9	55·4	58·0	+ 0·7	112	0	4	1·40	+ 0·67	39·0	+ 2·4	43	+ 3
	Clifton	68	46	64·1	51·6	57·6	+ 0·2	109	0	3	0·38	− 0·39	*	*	*	*
	Bath	70	40	65·6	47·4	56·1	− 1·9	99	0	2	0·10	− 0·57	36·0	—	40	—
	Arlington (N. Devon)	66	41	62·6	48·1	55·0	− 0·8	91	0	4	0·80	− 0·33	*	*	*	*
	Cullompton ℳ	69	38	65·8	46·4	55·6	− 2·4	95	0	2	0·23	− 0·59	34·9	− 0·5	38	− 1
	Falmouth	66	50	62·6	52·6	57·4	− 0·5	108	0	3	0·83	− 0·09	35·9	− 3·8	40	− 4
	Plymouth	66	45	63·8	52·3	57·8	− 0·6	111	0	4	0·69	− 0·06	42·3	+ 4·3	47	+ 5
9. IRELAND, N.	Malin Head	60	44	58·1	47·6	52·6	− 2·7	74	0	7	0·43	− 0·31	*	*	*	*
	Edenfel (Omagh)	62	38	59·1	46·3	52·4	− 1·2	73	0	7	0·98	+ 0·15	*	*	*	*
	Blacksod Point	61	45	59·4	49·0	54·0	− 2·1	84	0	6	1·71	+ 0·74	*	*	*	*
	Markree Castle	64	37	61·0	47·2	53·8	− 0·4	83	0	5	0·89	− 0·01	24·4	− 1·7	27	− 2
	Armagh	65	44	61·4	47·6	54·2	0·0	85	0	5	0·95	+ 0·28	30·4	+ 2·8	33	+ 3
	Donaghadee	63	45	61·0	49·1	54·8	− 0·3	90	0	6	0·68	+ 0·02	*	*	*	*
10. IRELAND, S.	Dublin	72	47	65·3	51·1	57·9	+ 1·3	111	0	5	0·32	− 0·22	40·0	+ 5·6	44	+ 6
	Birr Castle	63	43	61·1	46·6	53·5	− 1·6	81	0	5	1·04	+ 0·33	25·2	− 5·3	27	− 6
	Kilkenny	63	40	61·4	47·1	53·9	− 2·1	83	0	4	1·59	+ 0·94	*	*	*	*
	Waterford	63	44	62·1	48·3	54·9	− 1·3	90	0	4	1·96	+ 1·19	*	*	*	*
	Roche's Point	63	47	61·1	51·3	56·0	− 1·1	98	0	4	2·00	+ 1·17	*	*	*	*
	Valencia	61	47	59·7	51·6	55·5	− 1·6	95	0	5	2·75	+ 1·73	23·4	− 8·6	26	10
	Killarney	65	44	62·9	50·0	56·1	− 0·2	99	0	6	1·98	+ 1·05	*	*	*	*
	Foynes	62	49	60·2	52·2	56·0	0·0	98	0	3	1·09	+ 0·34	*	*		*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	53	62·7	55·0	58·7	− 0·4	117	0	4	0·68	0·00	34·8	− 7·3	38	− 8
	Jersey	72	51	64·6	52·3	58·2	− 2·8	113	0	4	0·95	+ 0·28	37·2	− 8·4	41	− 9

Stations Marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

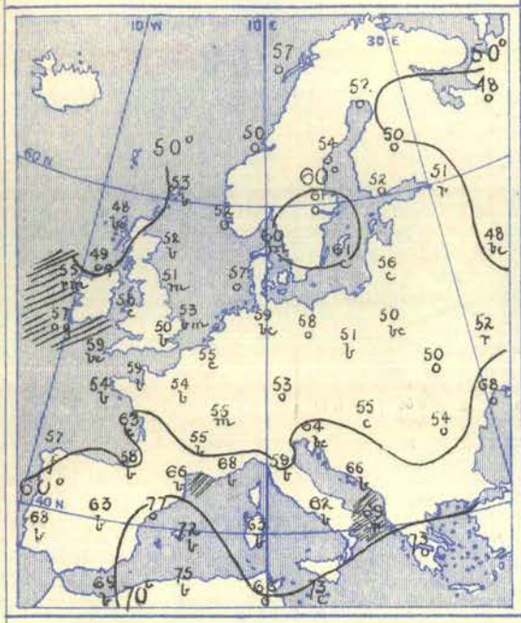
† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

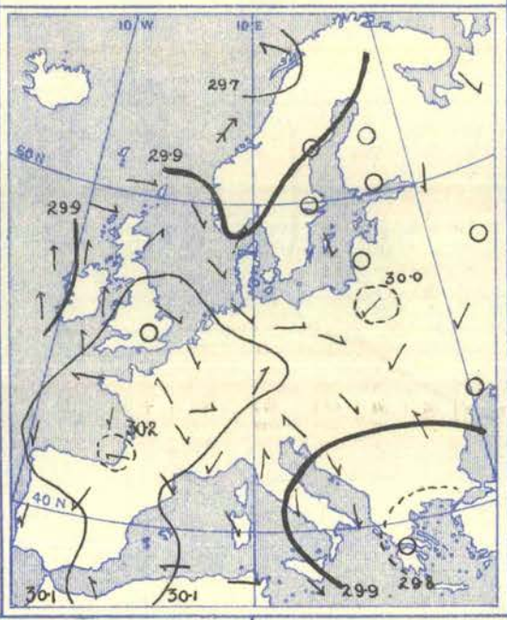
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 4th September, 1904.

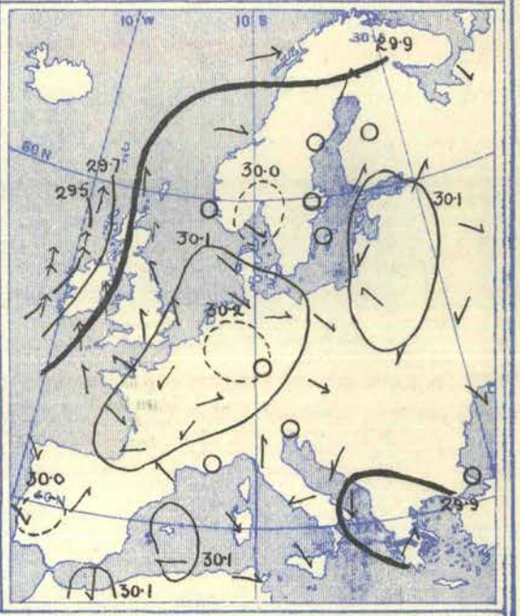
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. dull over Ireland and northern Europe, with rain in a few places; fine in most other regions, but dull in the extreme south-east, with rain at Brindisi. Fog prevailing at Prague and Corunna. An inch of rain falling later at Bodö, nearly as much in the west of Ireland, 0·8 in. at Stornoway, 0·5 in. at Bodö, and a few tenths of an inch in Greece.

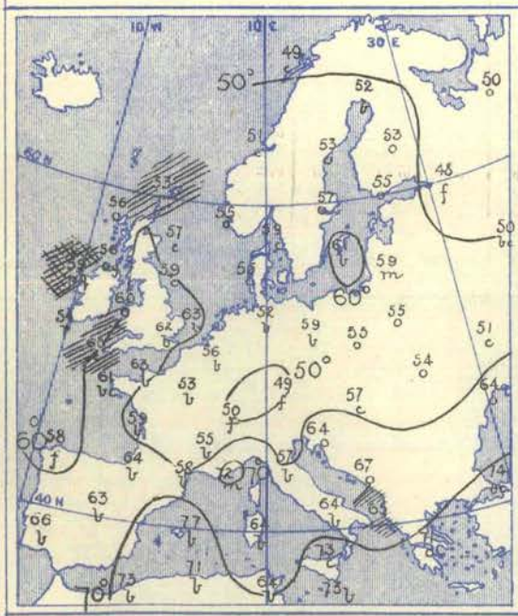
Temperature changed irregularly. Morning readings ranging from 77° at Barcelona and 73° at Malta and Athens, to below 60° over our area generally, and to less than 50° in the north of Scotland, Archangel, Moscow, and Limoges. Maxima during day, 91° at Aumale and 93° at Madrid, but below 80° in most southern regions, and below 70° over most of the northern and central countries. Just touching 70° at Stockholm and in London.

Wind strong from South-South-East on the west coast of Ireland, and blowing a gale from South-West at Christiansund. Light to moderate or fresh in force generally and variable in direction—mainly anticyclonic over the more south-western countries and cyclonic elsewhere. Southerly wind increasing to a strong to whole gale later in the north-west of Ireland, and to a moderate or fresh gale at several of our western and northern stations Little change elsewhere.

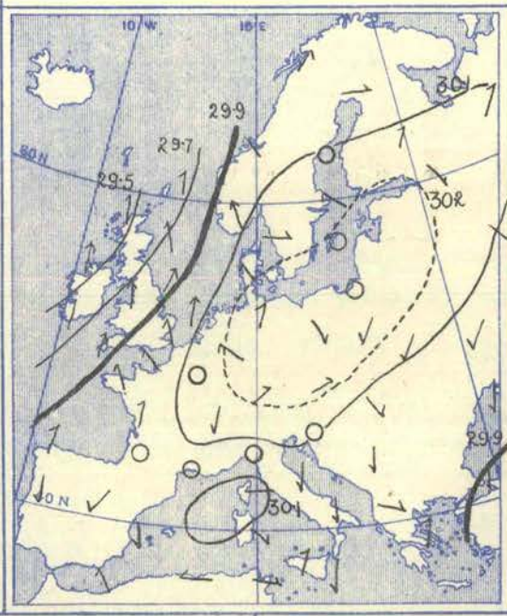
Barometer at 8 a.m. ranging from 30·1 ins. to 30·2 ins. in a large anticyclone centred over the south-east corner of the Bay of Biscay, to less than 29·8 ins. (1) over Greece and Turkey, and (2) off the west of Ireland, and to below 29·7 ins. over the north-west of Norway. Anticyclone moving north-eastwards later, and a large and deep depression encroaching on Ireland. Gradients increasing quickly and becoming steep on our north-west coasts.

Monday, 5th September, 1904.

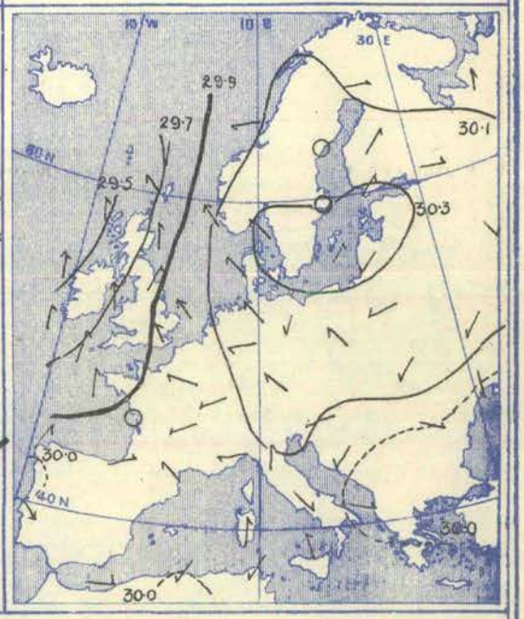
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over the greater part of the Continent and most parts of our Islands, but overcast in places, foggy over the Gulf of Finland and on the north-west coast of Spain, and rainy at Brindisi. Dull and rainy on our extreme western and northern coasts. Thunderstorms experienced later in the west of France, and considerable falls of rain over our western and northern districts and in Hungary and Transylvania.

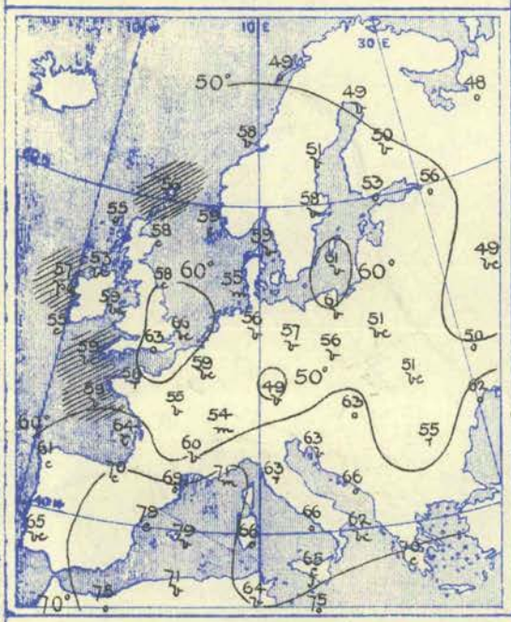
Temperature fallen generally, but risen quickly over these Islands. Morning readings ranging from 77° at Palma, 73° at Malta, and 71° at Patras, to 63° at Leith, 59° at Skagen, 49° at Bodö, 48° at St. Petersburg. Rising later to 68° at Stockholm, 75° in London, to above 80° in some parts of France and the Mediterranean generally, to 93° at Biarritz, and to 99° at Sfax. Thermometer only rising to 64° at Munich and Lemberg.

Wind at 8 a.m. strong to a gale from the Southward along our own western coasts, and moderate or fresh from the same quarter over these Islands generally. A very extensive anticyclonic circulation prevailing over the Continent. Some decrease in strength taking place later on our western coasts, but little other change.

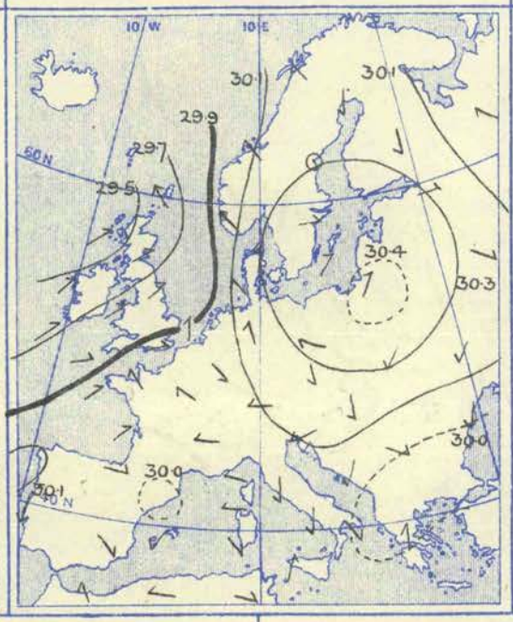
Barometer at 8 a.m. highest, 30·2 ins. and upwards in a very large anticyclone with its central area embracing Germany, Denmark, and Courland, and extending to the south of Finland. Lowest, below 29·5 ins. in a depression of considerable size off our north-west coasts. Anticyclone travelling eastwards later and increasing in intensity. Little change occurring in the neighbourhood of the lowest pressure.

Tuesday, 6th September, 1904.

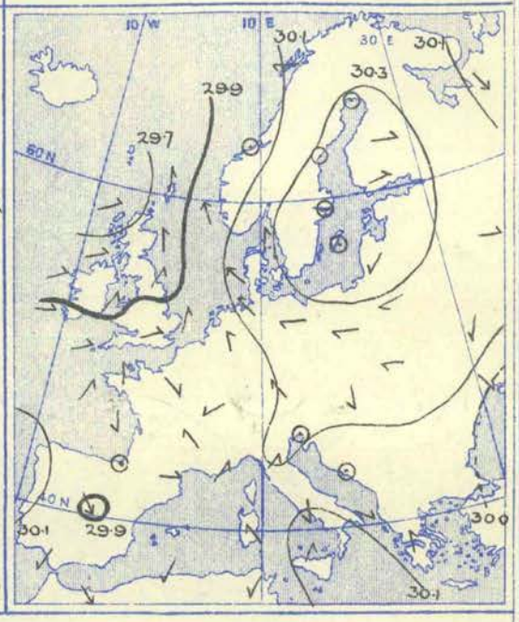
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine in most parts of central and northern Europe and in Algeria; cloudy or dull elsewhere, with rain at some of our own northern and north-western stations, at Florence and Hermanstadt, and thunder and rain in the west of France. Rain experienced later in most parts of our Islands and the more southern regions of the Continent—largest quantities, 0·8 in. at Liverpool, 1·1 in. at Biarritz, 1·2 ins. at Cape Béarn, and 3·3 ins. at Alicante. Thunderstorms occurring in several French and English localities.

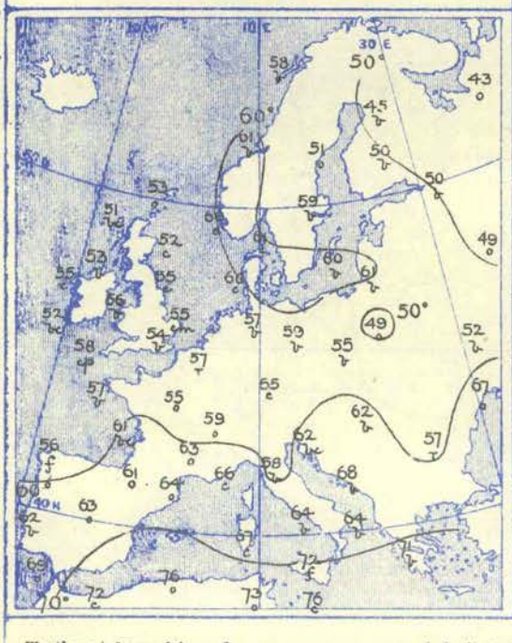
Temperature changed irregularly. Morning readings highest, 79° at Barcelona and Palma, 75° at Malta, and 71° at Nice. Lowest, 48° at Archangel, 49° at Moscow, Munich, and Bodö, 50° at Kiev, 51° at Limoges, 53° at Malin Head and Wick, and 55° at Hermanstadt. Rising later to 69° at Leith, above 70° over France and central Europe, and above 80° at several southern stations. Highest values, 93° at Madrid and 95° at Aumale.

Wind at 8 a.m. strong or fresh from the Southward on our north-west coasts, and from the South-Eastward in the Shetlands and the south-west of Norway. Light or moderate and mainly Westerly over our southern districts. A very extensive anticyclonic circulation still prevailing over the major portion of the Continent. Wind veering and moderating on our north-west coasts by evening, but little other change.

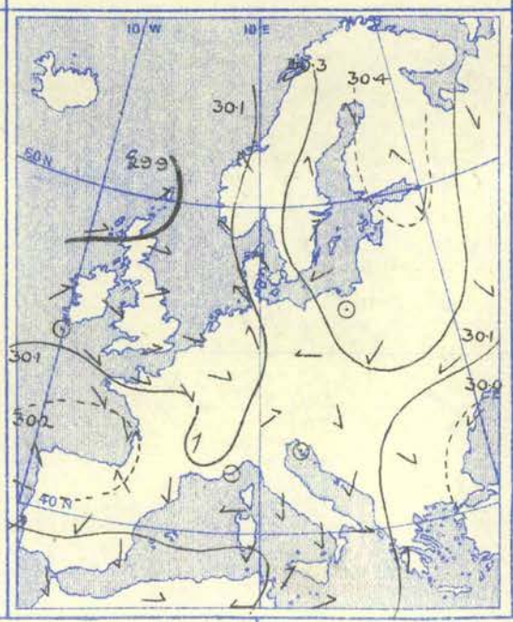
Barometer at 8 a.m. ranging from 30·4 ins. and upwards in a large anticyclone centred over East Prussia to less than 29·5 ins. in a depression off our north-west coasts, and to below 30·0 ins. over the south-east of Europe. Disturbance in north-west moving off northwards or north-westwards later, and another high pressure beginning to extend over France from the south-westward. A small secondary minimum appearing over the St. George's Channel, and a similar system shown over the north of France at 8 a.m. dispersing.

Wednesday, 7th September, 1904.

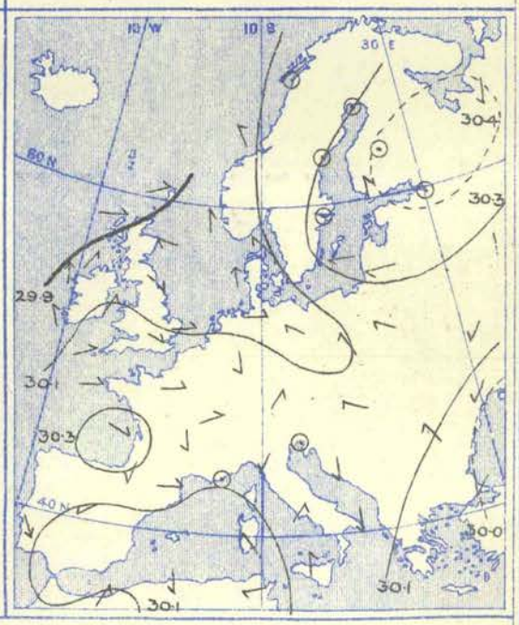
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine over our area as a whole, but cloudy or overcast in places, and rainy at Brussels, Alicante, Hermanstadt, and Nicolaieff. Foggy at Corunna, Oxford, and Prague. Rain falling at almost all our own stations and in many Continental regions later, and thunder or thunderstorms occurring in some English localities. Heaviest rain, 1·5 ins. at Valencia Island, 0·8 in. at Pembroke, 0·6 in. at Spurn Head, 1·9 ins. at Munich, 1·0 in. at Leghorn, and 0·6 in. at Besançon.

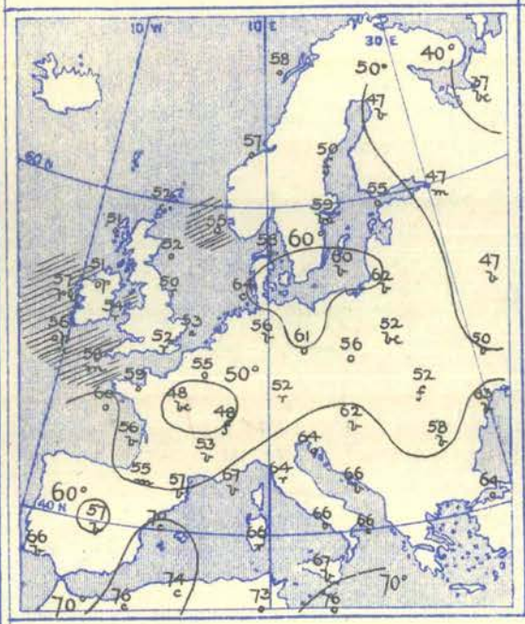
Temperature fallen in most places, but risen in Scandinavia. Morning readings highest, 82° at Sfax, 76° at Algiers and Malta, 71° in Greece, and 68° at Lésina. Lowest, 43° at Archangel, 49° at Moscow and Warsaw, 50° at Parsonstown, 51° at Oxford, and 53° at Le Mans and Prague. Rising subsequently to 67° on our south-east coast, to 73° at Stockholm, 75° at Berlin and Nice, and to 80° or above at a few stations in the far south. Highest readings, 88° at Madrid and 93° at Tunis and Sfax.

Wind at 8 a.m. light and mainly North-Westerly or Westerly over the United Kingdom, and moderate to strong from the South-Eastward on the eastern shores of the North Sea. Light variable airs prevailing over southern Europe and the Mediterranean, and an anticyclonic movement over the northern countries. Wind veering to South-West or South on our western coasts by 6 p.m., and increasing to a strong breeze on the west coast of Ireland.

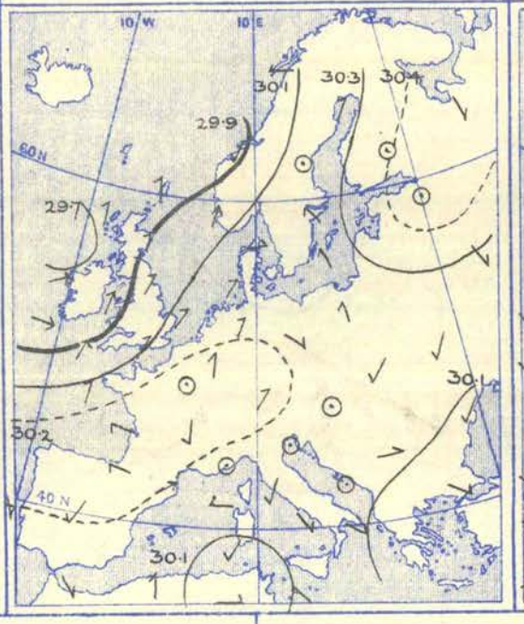
Barometer at 8 a.m. ranging from above 30·4 ins. in a large anticyclone centred over Finland and above 30·2 ins. in a smaller system over the Bay of Biscay, to below 30·0 ins. in a shallow depression over the Black Sea and in a "hollow" over the greater portions of the North Sea and England, and to less than 29·9 ins. off the north of Scotland. Both high and low pressure systems moving eastwards later, and a fresh depression beginning to affect the west of Ireland.

Thursday, 8th September, 1904.

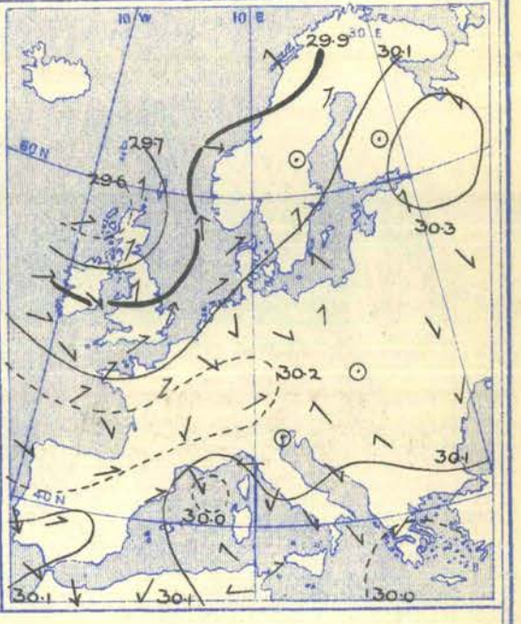
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in most parts of the Continent, but dull in Norway, the north of France, and Italy, with rain at Florence. Rain also falling at Cagliari. Dull and rainy in nearly all British localities. Very heavy rain later at some Italian stations—1·8 ins. at Pesaro—and a thunderstorm at Malta. Rain also falling at Sfax and in Norway.

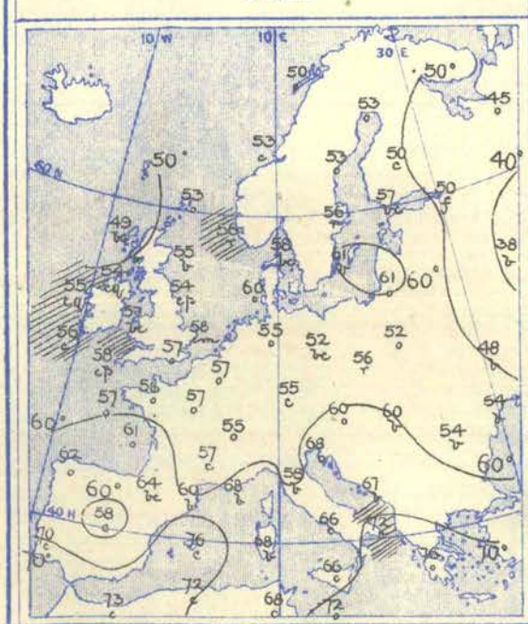
Temperature fallen except in Italy. Morning readings highest, 80° at Sfax, 76° at Malta and Oran, and 70° at Barcelona. Lowest, (1) 37° at Archangel, 47° at St. Petersburg and Moscow, and 48° at Kharkov, (2) 46° at Limoges and 48° at Belfort and Paris, (3) 50° or 51° in several parts of England. Rising later to 73° at Stockholm, about the same level in central Europe, and to above 80° in the south. Highest values, 90° at San Fernando and 93° at Sfax. Maximum only 69° in London.

Wind in morning light and anticyclonic in almost all Continental regions. Southerly over Great Britain and the east of Ireland, light in force generally, but strong to a moderate gale along the west coasts and also in the north of Ireland. Strong Westerly breezes reported in the west of Ireland. Wind veering and freshening over England during day or ensuing night, but little change occurring as a whole.

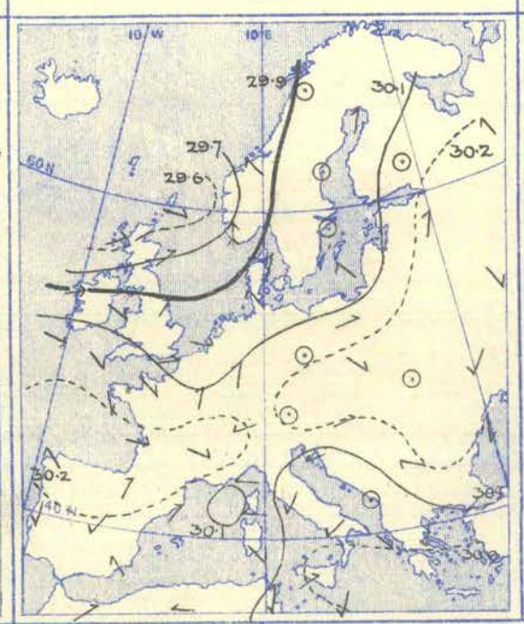
Barometer at 8 a.m. ranging from above 30·4 ins. in an anticyclone with its centre extending from St. Petersburg to Archangel, and above 30·2 ins. in an area stretching from the north of Spain to central Europe, to below 29·7 ins. in a depression centred off the west of Scotland. Disturbance moving north-eastwards later, and a secondary appearing over the St. George's Channel. Russian anticyclone decreasing somewhat in intensity.

Friday, 9th September, 1904.

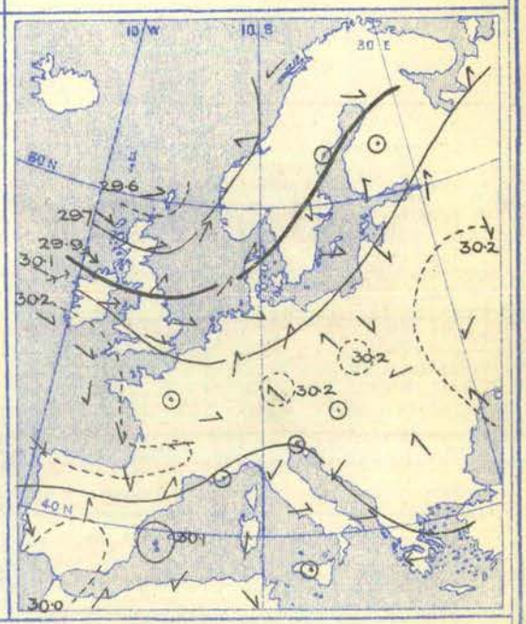
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull in most of the more northern localities, with showers or steady rain at Shields, Skudesnaes, Stockholm, and Breslau. Generally fair or fine in the south, but cloudy or overcast in places. Rain in rather small quantities experienced later in various northern regions, and also at some French and German stations.

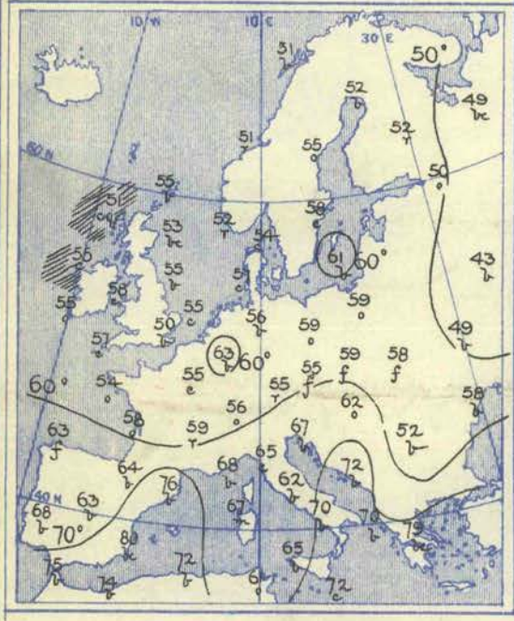
Temperature risen in some localities, fallen in others. Morning readings highest, 76° at Patras, Palma, and San Fernando, 68° at Cape Sicié and Trieste, 61° at Memel and Wisby. Lowest, 38° at Moscow, 42° at Kharkov, 45° at Archangel, 49° at Stornoway and Limoges, and 50° at Bodö. Rising during day to 67° at Dungeness, to between 70° and 80° over central and southern Europe, and to above 80° in places. Highest reading, 91° at Madrid.

Wind in morning moderate to strong from the Westward over Ireland and England generally, but a gale prevailing at Malin Head. Southerly on the eastern shores of the North Sea, and strong to a gale in the south-west of Norway. Anticyclonic and of little force over the major portion of Europe, but variable or cyclonic over the Mediterranean. A moderate North-North-Easterly gale reported at Athens.

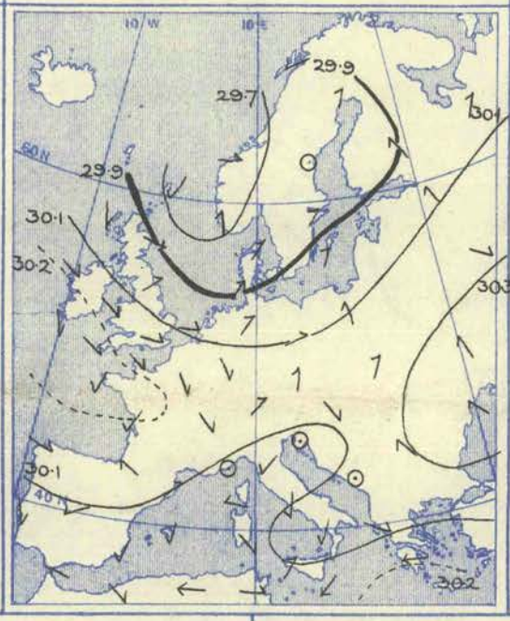
Barometer at 8 a.m. highest, 30·2 ins. and upwards in an anticyclone extending from the Bay of Biscay to the east of France, and in another, and larger, system stretching from Russia to Bavaria. Lowest, 29·6 ins. and less in a depression off the north of Scotland. Relatively low over the eastern half of the Mediterranean. South-western anticyclone extending to the south of Ireland and the south-west of England by 6 p.m., and depression in north travelling northwards.

Saturday, 10th September, 1904.

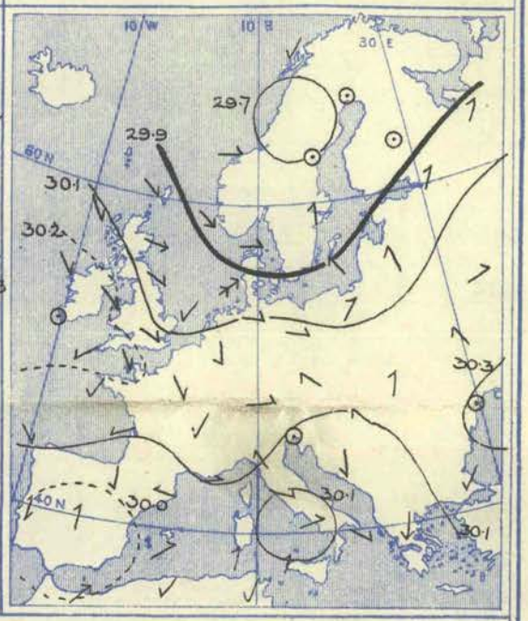
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather at 8 a.m. fair or fine in many parts of our Islands and the south of Europe, cloudy or overcast in nearly all other regions, with rain in Norway, at Kuopio, Munich, Lyons, and Limoges, and fog at several stations in central Europe and on the north-west coast of the Spanish Peninsula. Some rain falling later in the north of Scotland, Scandinavia, Denmark, Finland, and in one or two localities in central Europe.

Temperature changed irregularly. Morning readings highest, 79° at Patras, and above 70° at many other southern stations. Lowest, 43° at Moscow, 48° at Nicolaieff, 49° at Archangel, 51° or 52° along the west coast of Norway and in the north of Scotland, and 50° in London. Rising subsequently to 67° at Leith, to above 70° at many stations in France and the central countries, and to above 80° at some southern stations. Highest figure, 91° at Madrid.

Wind at 8 a.m. showing a cyclonic movement over the northern countries, light variable airs in the Mediterranean region, and light anticyclonic winds in the intervening districts. Northerly current blowing freshly in the north of Scotland, and that from South-West strong at Fanö. South-Westerly wind increasing to a gale on the coast of Jutland by evening. Little other change, but anticyclonic airs extending to our own west and south-west coasts.

Barometer at 8 a.m. ranging from above 30·3 ins. in the south of Russia and above 30·2 ins. over the south-western parts of our Islands, to below 29·7 ins. in a depression having its centre over the northern part of the North Sea. Disturbance travelling briskly to the north of Scandinavia during the day, and anticyclone in the south-west moving northwards over Ireland. Pressure giving way decidedly over the Bay of Biscay.

IV.—GENERAL NOTES, etc.

During this period there was a general movement eastwards or north-eastwards of both the high and low pressure systems. The former were shown in a long band of more or less uniform pressure extending from the Bay of Biscay to Russia, while the chief disturbances came over or in the immediate neighbourhood of our Islands and travelled on to the north-western parts of the Continent. The depressions which appeared in the south of Europe and over the Mediterranean were mostly shallow and ill-defined. The general direction of the wind was between South and West over the north-western countries; it had little force as a rule, but sometimes blew a gale on our own extreme north-west coasts and also in the south of Norway.

In the central and southern regions the wind was almost always light and generally variable in direction. Temperature was of the autumnal type in most countries, the days being rather warm and the nights cold. Rain was experienced some time during the week except at some of the most southern stations. The falls were most frequent in the north-west, but heaviest in the central districts and north of Italy. A very heavy fall was also reported at Alicante. Thunderstorms occurred more than once in different parts of France, and depressions which passed over the United Kingdom on the 6th and 7th were accompanied by the same phenomena in some parts of England.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 212.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	32·6	+ 7·0	35	+ 8
STRATHPEFFER SPA	25·0	- 2·1	27	- 2
CRATHES	18·4	—	20	—
EDINBURGH	30·3	+ 4·4	33	+ 5
COCKLE PARK	43·0	—	47	—
NEWCASTLE-on-TYNE	35·3	—	38	—
YORK	46·0	+ 17·0	50	+ 19
SKEGNESS	37·5	—	41	—
CROMER	42·8	—	47	—
LOWESTOFT	43·2	—	48	—
DUNMOW	40·0	—	44	—
SHEFFIELD	43·4	—	48	—
WORKSOP	41·8	+ 13·0	45	+ 14
THURCASTON	44·4	+ 13·4	49	+ 15
MARGATE	35·8	- 0·5	39	- 1
BROADSTAIRS	40·2	—	44	—
RAMSGATE	42·3	—	47	—
EASTBOURNE	44·7	+ 3·5	49	+ 4
BRIGHTON	44·0	+ 2·8	48	+ 3
WORTHING	45·0	—	50	—
BOGNOR	43·0†	—	47†	—
WESTBOURNE	36·7†	- 3·8	40†	- 4
VENTNOR HOSPITAL	41·8	- 0·2	46	0
BOURNEMOUTH	39·3	—	43	—
MARLBOROUGH	33·2	+ 0·4	37	+ 1
SOUTHPORT	47·9	—	52	—
RHYL	32·9	—	36	—
ABERDOVEY	51·4†	—	57†	—
TENBY	37·0	- 0·6	41	- 1
TORQUAY	41·2	+ 1·5	45	+ 2
NEWQUAY	36·5	- 1·9	40	- 2
GUERNSEY	46·0†	+ 1·3	51†	+ 1

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 19, page 110	Lincoln	—	—	—	41·8	—	—	—	1	—	—	—	—	—	—	—
" " "	Hillington	—	—	—	41·1	—	—	—	3	—	—	—	—	—	—	—
" " "	Hereford	—	—	58·4	—	48·9	- 1·8	55	—	—	—	—	—	—	—	—
" " "	Cullompton	—	—	—	—	—	—	—	—	—	—	—	26·5	-17·3	—	—
No. 20, page 116	Scarborough	—	—	—	44·3	50·8	+ 1·4	—	—	—	—	—	—	—	—	—
" " "	Lincoln	—	—	—	42·9	51·7	+ 0·5	68	—	—	—	—	—	—	—	—

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 37. THIRTY-SEVENTH WEEK, ENDING SATURDAY, SEPTEMBER 17TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS (See p. 218.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	69	32	59·5	46·5	52·7	1 above	75	+ 9	0	− 2	1669	+ 10	477	− 76
	1. SCOTLAND, EAST	73	30	60·2	44·4	51·9	1 below	69	− 5	0	− 1	1837	−143	585	− 8
	2. ENGLAND, N.E.	69	39	62·1	47·9	54·7	0 (average)	89	+ 3	0	0	2248	+102	431	− 59
	3. ENGLAND, EAST	69	37	64·0	49·5	56·4	0 (average)	101	+ 3	0	− 1	2528	+ 41	404	−132
	4. MIDLAND COUNTIES	70	37	62·9	46·6	54·3	1 below	86	− 5	0	− 1	2343	−120	474	− 74
	5. ENGLAND, SOUTH	72	38	64·4	50·2	57·0	1 below	105	− 2	0	0	2578	−124	345	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	69	37	62·2	45·9	53·6	0 (average)	81	+ 3	0	0	2006	− 80	375	− 42
	7. ENGLAND, N.W.	71	34	62·9	48·1	55·1	0 (average)	92	+ 2	0	0	2205	− 81	386	− 13
	8. ENGLAND, S.W.	70	40	63·4	51·7	57·3	1 above	107	+ 8	0	0	2516	− 6	252	− 53
	9. IRELAND, NORTH	67	35	60·4	49·0	54·4	0 (average)	87	+ 4	0	0	2035	−179	337	− 20
	10. IRELAND, SOUTH	69	39	62·3	50·6	56·2	1 above	99	+ 7	0	0	2403	−104	232	− 24
	— CHANNEL ISLANDS	71	47	64·7	54·6	59·4	0 (average)	122	+ 2	0	0	2863	− 7	80	− 41

Rainfall.

	DISTRICTS. (See p. 218.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	3	8 less	172	+17	36·1	+ 4·3
	1. SCOTLAND, EAST	3	3	4 less	149	+14	20·5	− 0·5
	2. ENGLAND, N.E.	1	1	4 less	122	− 1	15·7	− 1·1
	3. ENGLAND, EAST	2	2	3 less	117	− 7	14·9	− 1·2
	4. MIDLAND COUNTIES	2	6	0 (average)	129	+10	18·9	+ 0·3
	5. ENGLAND, SOUTH	3	7	0 (average)	130	+14	19·3	+ 1·1
Principal Grazing Districts.	6. SCOTLAND, WEST	2	5	6 less	150	+11	35·6	+ 3·1
	7. ENGLAND, N.W.	2	4	5 less	144	+14	22·5	0·0
	8. ENGLAND, S.W.	5	10	2 more	145	+14	27·6	+ 3·2
	9. IRELAND, NORTH	4	8	0 (average)	181	+22	28·8	+ 4·6
	10. IRELAND, SOUTH	5	13	5 more	162	+20	30·8	+ 4·0
	— CHANNEL ISLANDS	5	10	3 more	161	+28	25·1	+ 5·0

Bright Sunshine.

	DISTRICTS. (See p. 218.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	28	+ 4	31	+ 4	980	+ 34	28	+ 1
	1. SCOTLAND, EAST	25	+ 1	28	+ 1	1006	− 80	29	− 2
	2. ENGLAND, N.E.	41	+ 9	46	+10	1157	− 43	33	− 1
	3. ENGLAND, EAST	48	+12	54	+13	1348	+ 11	39	0
	4. MIDLAND COUNTIES	36	+ 8	41	+ 9	1147	+ 22	33	+ 1
	5. ENGLAND, SOUTH	42	+ 6	48	+ 7	1336	+ 23	39	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	36	+ 4	41	+ 5	1080	− 64	31	− 2
	7. ENGLAND, N.W.	35	+ 6	40	+ 6	1178	+ 77	34	+ 2
	8. ENGLAND, S.W.	37	+ 1	42	+ 1	1269	− 93	37	− 3
	9. IRELAND, NORTH	27	0	30	0	1000	− 41	29	− 1
	10. IRELAND, SOUTH	19	−12	22	−14	1103	− 76	32	− 2
	— CHANNEL ISLANDS	50	+ 9	57	+10	1485	− 83	44	− 2

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather. Throughout the earlier half of the week the weather was in a very changeable condition, with frequent, and in some cases heavy, falls of rain. Later on, however, an improvement occurred, firstly in the eastern, and afterwards in all but the extreme western districts, where occasional rain was reported until the close of the period.

Temperature agreed very closely with the normal. The highest readings, which occurred at times varying greatly in the different districts, ranged a little on either side of 70°. In Ireland N. the thermometer did not exceed 67°, but in England S. it rose to 72°, and in Scotland E. to 73°. The lowest readings occurred, as a rule, at the commencement of the week, but in some of the northern districts they were registered about the middle of the period. The absolute minima ranged from 30° in Scotland E. and 32° in Scotland N., to 40° in England S.W., and to 47° in the Channel Islands. Slight ground frost was reported at some inland stations in the northern and eastern parts of Great Britain on the night of the 10th, and in central Scotland on the night of the 13th.

Rainfall amounted to less than the mean over the northern half of the Kingdom, but was either equal to, or in excess of, the normal in the southern districts.

Bright Sunshine was in excess of the mean in most districts, but showed a considerable deficit in Ireland S. In Scotland E. and in Ireland N. it agreed almost precisely with the average. The percentage of the possible duration ranged from 57 in the Channel Islands and 54 in England E., to 28 in Scotland E., and to 22 in Ireland S.

Barometer and Wind. An anticyclone which drifted north-eastwards across our Islands at the commencement of the week was followed by a large depression of considerable depth, which spread in from the Atlantic, and which occasioned strong Easterly or South-Easterly winds over the whole Kingdom, with gales on our north-west coasts. The centre of the disturbance ultimately moved away in a north-westerly direction and the wind veered to the South-Westward, but on the 14th another disturbance advanced over the south of Ireland, and occasioned a return of wind to East or South-East. The new system moved eastwards across our southern districts and dispersed, and in the closing days of the week a large anticyclone spread from Scandinavia over the whole of western and central Europe, freshening winds from the Eastward being reported on our southern coasts.

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II.—DATA from which the SUMMARY on page 217 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head Ş	57	45	54·4	48·3	51·2	+ 0·7	64	0	3	0·19	− 0·63	*	*	*	*
	Stornoway Ş	64	32	60·4	44·0	51·8	+ 0·7	69	0	5	0·72	− 0·24	36·4	+ 11·1	41	+ 13
	Wick Ş	59	44	56·1	47·9	51·8	0·0	69	0	2	0·55	− 0·08	*	*	*	*
	Lairg Ş	64	34	59·9	44·2	51·7	+ 1·0	68	0	4	0·15	− 0·58	*	*	*	*
	Glencarron Ş	69	37	61·8	46·1	53·6	+ 2·5	81	0	2	0·02	− 1·76	*	*	*	*
	Fort Augustus Ş	67	36	60·9	48·6	54·5	+ 1·4	88	0	1	0·02	− 0·91	23·2	+ 4·7	26	+ 5
	Fort William Ş	68	38	63·1	46·3	54·3	+ 0·9	86	0	2	0·33	− 1·34	38·7	+ 16·4	43	+ 18
1. SCOTLAND, E.	Nairn Ş	66	34	61·1	43·1	51·7	− 1·3	68	0	3	0·08	− 0·50	*	*	*	*
	Aberdeen Ş	61	39	57·4	47·9	52·4	− 0·5	73	0	4	0·24	− 0·43	14·4	− 14·6	16	− 16
	Braemar Ş	60	30	56·9	41·2	48·7	− 0·8	50	2	2	0·08	− 0·69	*	*	*	*
	Ochtertyre Ş	69	35	62·3	44·4	52·9	− 0·2	76	0	3	0·86	+ 0·06	*	*	*	*
	Leith Ş	73	38	63·3	46·6	54·6	− 0·1	88	0	2	0·11	− 0·39	*	*	*	*
	Marchmont Ş	64	40	59·9	43·1	51·1	− 1·1	64	0	1	0·13	− 0·60	36·8	+ 10·0	41	+ 11
2. ENGLAND, N.E.	Alnwick Castle	63	39	60·0	45·7	52·5	− 0·6	74	0	1	0·05	− 0·57	*	*	*	*
	Durham	66	40	61·8	44·4	52·7	− 1·3	75	0	1	0·03	− 0·49	33·7	+ 6·2	38	+ 7
	Shields	63	43	58·6	46·9	52·5	− 1·6	74	0	1	0·02	− 0·48	*	*	*	*
	Scarborough M	66	47	62·2	49·9	55·8	+ 0·6	97	0	1	0·03	− 0·54	44·2	—	50	—
	Spurn Head	62	50	61·0	53·1	56·9	+ 0·5	104	0	2	0·09	− 0·34	*	*	*	*
	Lincoln	69	39	65·6	48·2	56·5	+ 0·3	102	0	1	0·27	− 0·23	*	*	*	*
	Fulbeck (Lincolnshire)	69	41	65·7	47·3	56·1	+ 0·4	99	0	2	0·29	− 0·19	41·5	—	47	—
3. ENGLAND, E.	Hillington M	69	38	65·2	45·2	54·7	− 1·3	89	0	3	0·25	− 0·35	48·6	+ 17·0	55	+ 19
	Yarmouth	64	47	62·1	53·4	57·5	+ 0·6	109	0	1	0·08	− 0·52	*	*	*	*
	Geldeston	68	41	64·8	45·3	54·6	− 1·9	88	0	1	0·04	− 0·50	49·2	+ 12·7	56	+ 14
	Cambridge	68	37	65·2	45·4	54·8	− 2·1	90	0	2	0·35	− 0·12	43·6	+ 9·0	50	+ 10
	Felixstowe	65	48	63·2	53·5	58·1	+ 2·0	113	0	2	0·33	—	43·7	—	50	—
	Clacton-on-Sea	67	47	63·6	53·4	58·3	+ 1·0	114	0	2	0·04	—	52·5†	—	60†	—
	Rothamsted	68	41	62·9	47·1	54·6	− 0·8	88	0	2	0·47	− 0·11	41·1	+ 8·0	47	+ 9
	Shoeburyness	67	45	64·6	52·4	58·2	+ 0·1	113	0	2	0·02	− 0·45	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	67	42	62·1	46·2	53·8	− 0·2	83	0	2	0·18	− 0·47	37·0	—	42	—
	Bawtry (Hesley Hall)	68	—	64·6	—	—	—	—	—	1	0·12	− 0·38	*	*	*	*
	Nottingham	68	38	64·6	45·1	54·4	− 1·4	87	0	2	0·22	− 0·34	37·3	—	42	—
	Colly Weston (Stamford)	69	43	64·9	46·3	55·2	− 1·0	92	0	2	0·27	− 0·28	*	*	*	*
	Cheadle M	68	41	61·8	46·7	53·9	0·0	83	0	1	0·40	− 0·31	*	*	*	*
	Birmingham (Edgbaston)	67	44	62·0	48·2	54·8	− 0·5	90	0	3	0·64	+ 0·06	29·5	—	34	—
	Shrewsbury	69	37	62·2	46·3	53·9	− 1·7	83	0	2	0·50	—	*	*	*	*
	Hereford M	70	39	62·7	47·2	54·6	− 1·2	88	0	3	1·18	+ 0·60	*	*	*	*
	Cirencester	68	44	62·4	46·2	53·9	− 1·0	83	0	4	1·62	+ 0·95	42·3	+ 10·3	48	+ 12
	Oxford	68	40	63·0	46·9	54·6	− 1·8	88	0	2	0·64	+ 0·10	39·8	+ 5·8	45	+ 7
5. ENGLAND, S.	London	72	42	66·9	48·6	57·3	− 0·7	107	0	2	0·20	− 0·31	35·1‡	+ 5·4‡	40‡	+ 6‡
	Wisley (Surrey)	69	38	64·5	47·0	55·3	− 3·7	93	0	2	0·35	—	37·7	—	43	—
	Swarraton (Alresford) M	67	39	64·2	47·8	55·6	+ 0·4	95	0	6	0·63	− 0·04	*	*	*	*
	Tunbridge Wells M	68	41	63·0	48·0	55·1	− 3·0	92	0	2	0·37	—	44·6	—	51	—
	Dungeness	67	44	64·1	53·1	58·3	+ 0·1	114	0	3	0·82	+ 0·25	42·9	—	49	—
	Hastings (St. Leonards)	67	49	64·3	52·1	57·9	− 0·3	111	0	2	0·15	− 0·48	41·9	+ 2·3	48	+ 3
	Southampton	69	47	67·0	50·3	58·3	+ 0·1	114	0	4	1·40	+ 0·75	43·5	+ 6·1	49	+ 7
	Portland Bill	65	52	63·4	55·0	59·0	+ 0·7	119	0	4	0·59	—	*	*	*	*
	Shaftesbury M	65	48	62·4	49·7	55·8	0·0	97	0	4	1·52	+ 0·75	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	66	37	63·0	45·4	53·8	+ 0·3	83	0	2	0·90	− 0·73	*	*	*	*
	Glasgow	66	39	59·8	47·5	53·4	+ 0·4	80	0	2	0·14	− 0·72	32·7	+ 9·7	37	+ 11
	Cally Ş	65	38	62·5	44·5	53·1	+ 0·1	78	0	2	0·67	− 0·37	*	*	*	*
	Aspatria	69	39	63·3	46·0	54·2	+ 0·2	85	0	1	0·08	—	38·8	—	44	—
	Douglas (Isle of Man)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7. ENGLAND, N.W.	Newton Rigg	66	34	61·4	42·5	51·5	− 1·5	67	0	2	0·21	—	36·6	—	42	—
	Stonyhurst	67	41	61·5	48·7	54·8	+ 0·6	90	0	0	0·00	− 1·14	33·2	+ 4·1	38	+ 5
	Blackpool M	69	38	63·2	47·2	54·8	− 0·6	90	0	1	0·17	− 0·66	35·9	+ 7·3	41	+ 8
	Manchester (Prestwich)	69	42	63·4	48·4	55·5	+ 1·1	95	0	1	0·23	− 0·66	29·8	—	34	—
	Liverpool Obsy. (Bidston)	67	47	62·4	50·3	56·1	− 0·1	99	0	2	0·34	− 0·39	31·5	—	36	—
	Chester (Hawarden Bridge)	70	45	63·8	49·5	56·3	− 0·5	100	0	2	0·60	—	*	*	*	*
	Llandudno M	71	46	64·3	50·8	57·2	+ 0·3	106	0	3	0·38	− 0·31	34·2	+ 5·2	39	+ 6
	Holyhead	70	49	62·6	50·1	56·1	− 0·4	99	0	5	0·87	+ 0·16	*	*	*	*
	Bettws-y-Coed	71	38	63·1	45·4	53·8	− 2·8	83	0	3	0·52	—	33·4	—	38	—
8. ENGLAND, S.W.	Pembroke	65	50	61·4	53·0	57·0	+ 0·2	105	0	6	0·85	+ 0·10	38·1	+ 3·4	43	+ 4
	Clifton	70	46	63·9	51·4	57·4	+ 1·0	108	0	4	0·63	− 0·14	*	*	*	*
	Bath	70	40	65·7	49·4	57·2	+ 0·1	106	0	4	0·93	+ 0·26	35·3	—	40	—
	Arlington (N. Devon)	66	45	62·9	50·0	56·1	+ 1·0	99	0	5	0·78	− 0·35	*	*	*	*
	Cullompton M	68	41	65·4	50·8	57·8	+ 0·8	111	0	4	1·59	+ 0·85	37·1	+ 3·3	42	+ 4
	Falmouth	64	50	61·5	53·8	57·5	+ 0·3	109	0	4	0·99	+ 0·04	34·0	− 3·6	39	− 4
	Plymouth	65	48	63·0	53·6	58·1	+ 0·6	113	0	5	1·16	+ 0·39	40·2	+ 4·0	46	+ 5
9. IRELAND, N.	Malin Head	63	45	59·4	48·7	53·8	− 0·9	83	0	3	0·23	− 0·50	*	*	*	*
	Edenfel (Omagh)	64	35	61·1	46·1	53·2	+ 0·4	78	0	3	0·55	− 0·26	*	*	*	*
	Blacksod Point	63	50	59·4	51·9	55·5	− 0·1	95	0	6	1·72	+ 0·78	*	*	*	*
	Markree Castle	67	38	61·6	49·0	55·0	+ 1·7	91	0	3	0·90	+ 0·01	21·7	− 3·6	25	− 4
	Armagh	64	39	61·1	48·6	54·6	+ 1·2	88	0	3	0·69	+ 0·04	31·2	+ 4·0	36	+ 5
	Donaghadee	61	45	59·6	49·7	54·4	− 0·1	87	0	3	0·58	− 0·07	*	*	*	*
10. IRELAND, S	Dublin	67	49	63·3	53·0	57·9	+ 2·1	111	0	5	1·45	+ 0·92	28·3	− 5·3	32	− 6
	Birr Castle	68	40	63·1	48·3	55·3	+ 1·0	93	0	3	0·33	− 0·34	17·9	− 12·1	20	− 14
	Kilkenny	66	39	61·7	49·0	55·1	0·0	92	0	4	1·07	+ 0·44	*	*	*	*
	Waterford	67	45	62·3	49·0	55·3	− 0·1	93	0	6	1·33	+ 0·58	*	*	*	*
	Roche's Point	62	44	60·7	50·7	55·5	− 0·9	95	0	7	1·45	+ 0·62	*	*	*	*
	Valencia	65	46	61·4	51·1	56·0	− 0·5	98	0	7	3·20	+ 2·20	12·1	− 19·2	14	− 22
	Killarney	69	45	62·1	51·4	56·5	+ 0·9	102	0	6	0·75	− 0·14	*	*	*	*
	Foynes	69	48	63·7	52·9	58·0	+ 2·7	112	0	4	0·41	− 0·30	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	54	62·7	54·7	58·5	0·0	116	0	5	1·20	+ 0·46	34·0	− 5·9	39	− 7
	Jersey	71	47	66·6	54·4	60·2	− 0·3	127	0	4	0·78	+ 0·07	57·3	+ 13·9	65	+ 16

Stations Marked M are in connection with the Royal Meteorological Society, and those marked Ş with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

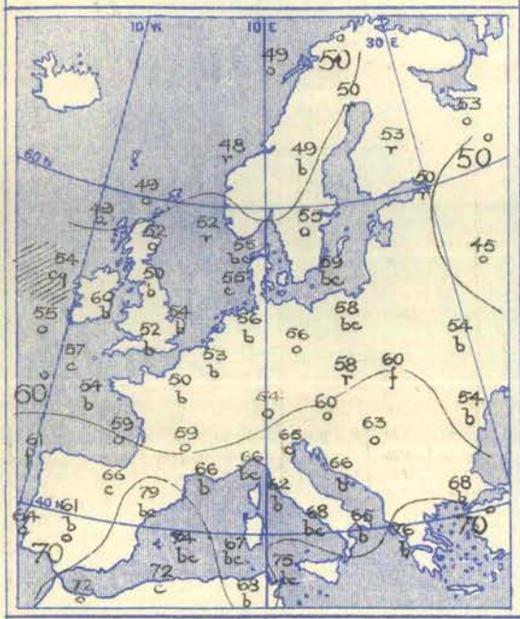
† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

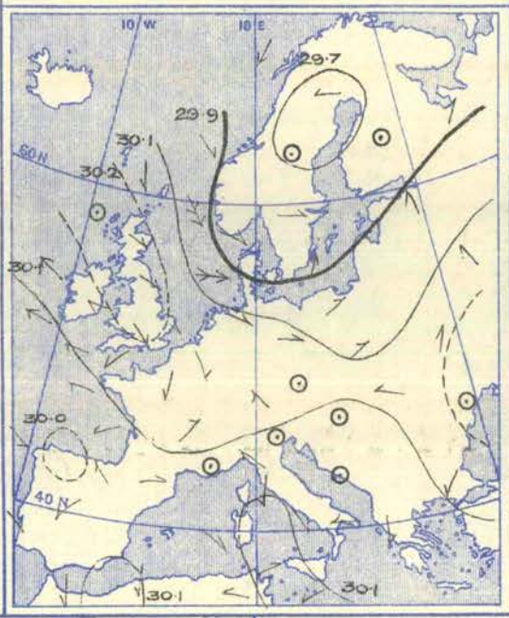
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 11th September, 1904.

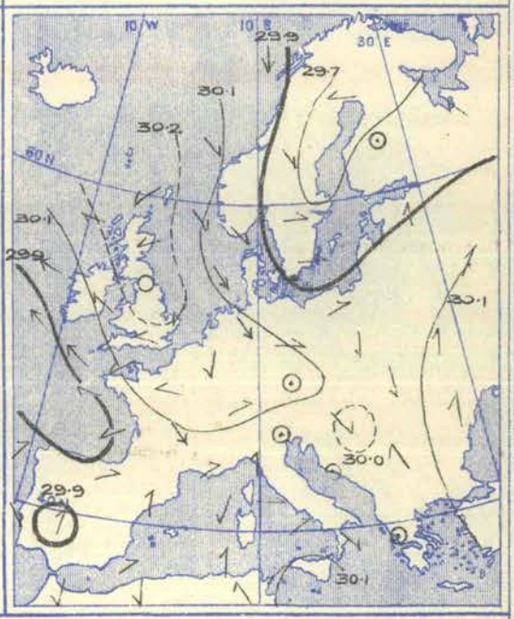
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. dull and rainy in several parts of central Europe, Scandinavia, Finland, and the north of Russia; generally fine elsewhere. Thunderstorms and rather heavy rains occurring later in various parts of France, and rain at a few English and Irish stations and over northern Europe.

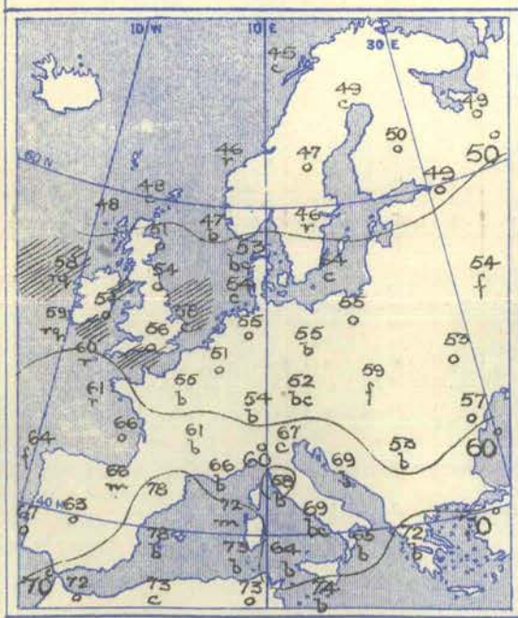
Temperature fallen in most regions. Morning readings highest, 79° at Barcelona, 76° at Patras, 75° at Malta, and 70° at Cape Sicié. Lowest, 44° in central England, 45° at Kharkov and Moscow, 48° at Christiansund, and 49° at several stations in the north of Scotland. Rising later to 70° in London and to above 80° in many French and southern districts. Highest readings, 88° at Tunis and 90° at Madrid. Maxima below 60° at several of our north-eastern and northern stations.

Wind in morning light and anticyclonic over our Islands and the whole of central and south-eastern Europe. Circulating cyclonically around the Gulf of Bothnia, with little force generally, but with the strength of Northerly to Westerly gales in the south-west of Norway and in Denmark. A feeble cyclonic movement also prevailing over the southern part of the Bay of Biscay. Latter becoming more pronounced by evening and extending to our own south-west coasts. Gales in Norway and Denmark subsiding.

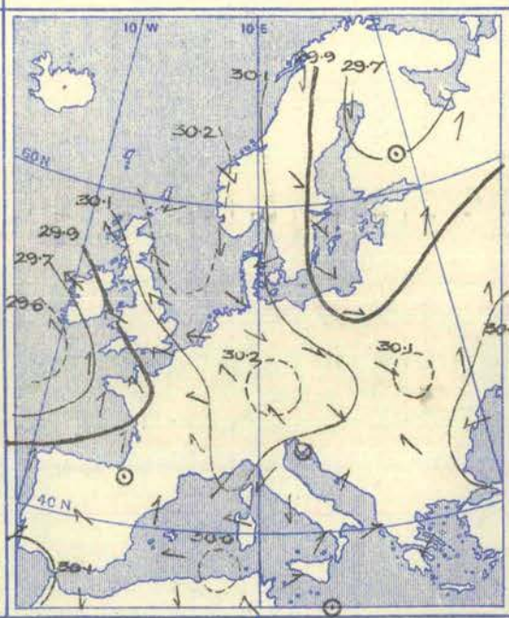
Barometer at 8 a.m. above 30·3 ins. in the south of Russia, above 30·2 ins. over Great Britain, and above 30·15 ins. in a "col" extending across central Europe. Lowest, 29·7 ins. and less in a depression over the Gulf of Bothnia and its vicinity; below 30·0 ins. in another system situated between Biarritz and Corunna. Latter disturbance growing deeper and moving northwards during day, and high pressure over Great Britain receding north-eastwards.

Monday, 12th September, 1904.

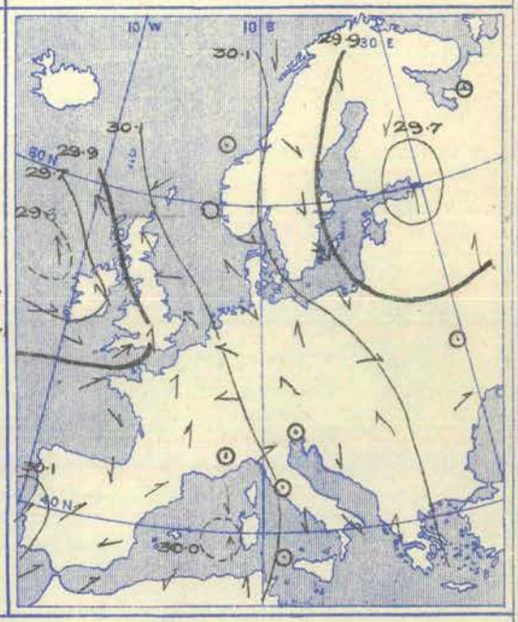
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in many parts of central and southern Europe; cloudy or overcast elsewhere, with rain on our south-west and south coasts and in the north of France, as well as at Christiansund. Rain falling later throughout our Islands and France, and in some parts of Germany. Thunderstorms occurring at various French stations. Heaviest rain, 1·1 ins. at Clermont, 0·8 in. at Paris and Rochefort, 0·7 in. at Valencia, and 0·6 in. at Holyhead and Bath.

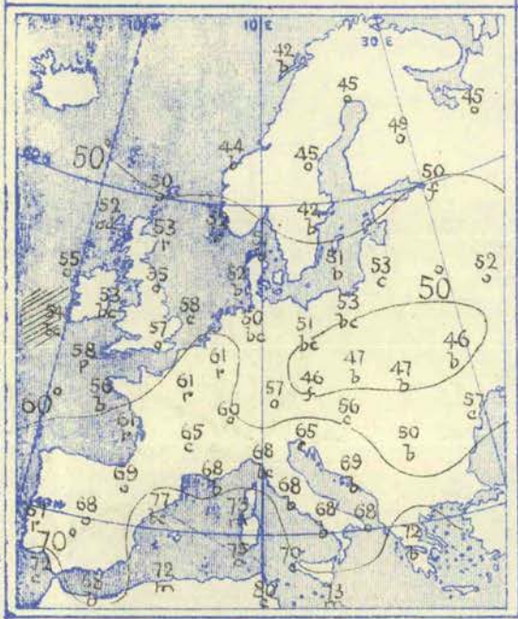
Temperature in morning ranging from 78° at Barcelona and Palma, and about 70° at some other southern stations, to below 50° over the north of Scotland, the northern districts of the Continent, and at Kharkov. Lowest readings, 45° at Bodö and 46° at Stockholm and Karlstad. Remaining below 60° all day at most of our own stations, but rising to 71° at Jersey, to above 75° in most southern localities, and to above 80° in places. Highest values, 95° at Madrid and Tunis.

Wind at 8 a.m. cyclonic generally, but mainly anticyclonic over the central parts of our area. Strong from the Eastward over England, and strong to a gale from the same quarter over Ireland; moderate from the Southward over the Bay of Biscay. Light or moderate in force elsewhere, but North-Westerly wind strong at Heröösand. Easterly wind increasing to a moderate gale on some English coasts, and gale becoming general over the north of Ireland. A North-North-West gale setting in at Wisby.

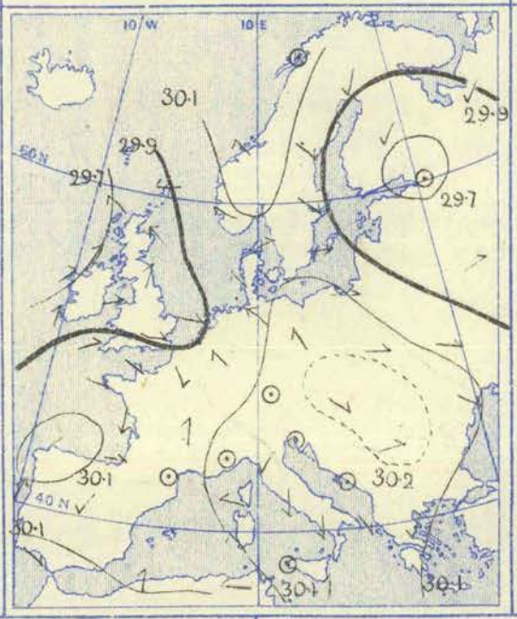
Barometer at 8 a.m. highest, above 30·2 ins. (1) over the northern part of the North Sea, (2) in the south-west of Germany, (3) in the south of Russia. Lowest, 29·7 ins. and less in a depression centred over Lapland and the north of Finland, and in another disturbance having its centre off the south-west of Ireland. Northern system travelling southwards later and increasing in depth, but that off Ireland moving northwards. A secondary appearing over the English Channel.

Tuesday, 13th September, 1904.

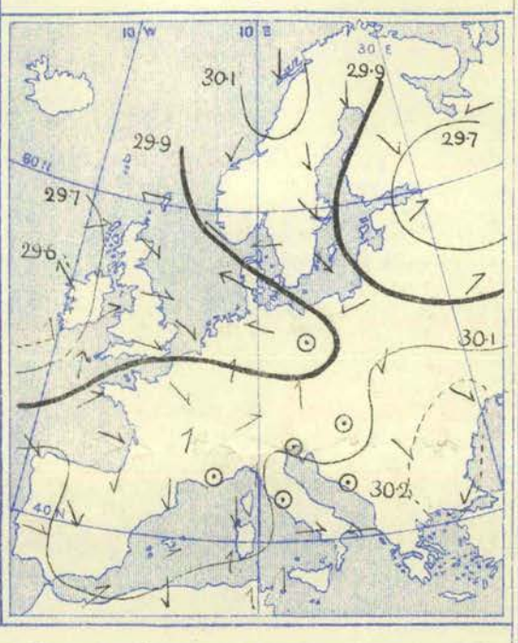
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. fine and bright in the west and south of Norway, on the shores of the Baltic, the west of our Islands, and in most parts of southern Europe; cloudy or overcast elsewhere, with rain at Stornoway, Aberdeen, Brussels, in the north of France, at Hangö, and also at Rochefort, Bilbao, and Lisbon. Remaining fine all day in most central and southern regions and in Norway, but rain falling elsewhere. Largest amounts, 0·5 in. at Wick, Scilly, and Roche's Point, 1·1 ins. at Brussels and Lyons, and 1·7 ins. at Gap.

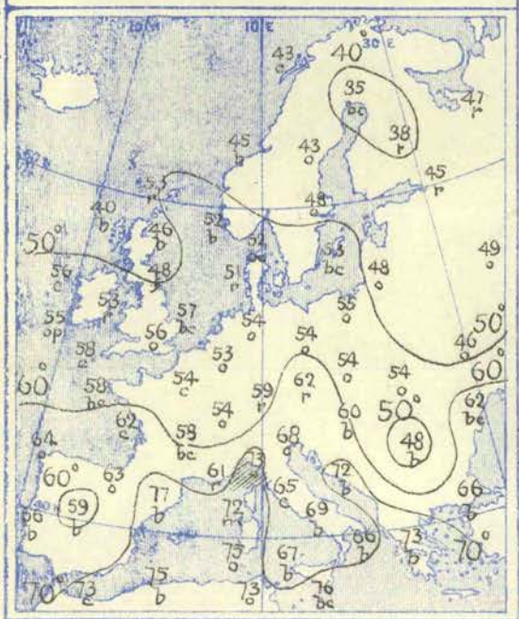
Temperature fallen as a whole. Morning readings highest, 80° at Sfax, 75° at Cagliari, 72° at San Fernando and in Greece, and 69° at Nice and Biarritz. Lowest, (1) 42° at Bodö and Stockholm, (2) 42° at Warsaw, (3) 45° at Archangel, (4) 49° in central and northern Ireland. Rising during day to 60° in London, to above 70° in Germany, Austria-Hungary, and southern Europe, and to above 80° in places. Highest readings, 93° at Tunis and Aumale.

Wind at 8 a.m. circulating cyclonically over Russia and Sweden, the Westerly current blowing a strong breeze at Wisby. Light anticyclonic airs prevailing over the central and southern countries, and irregular cyclonic winds over our Islands and their vicinity. Wind backing and increasing on our west and south-west coasts later, and the anticyclonic airs over central Europe becoming displaced by moderate cyclonic breezes.

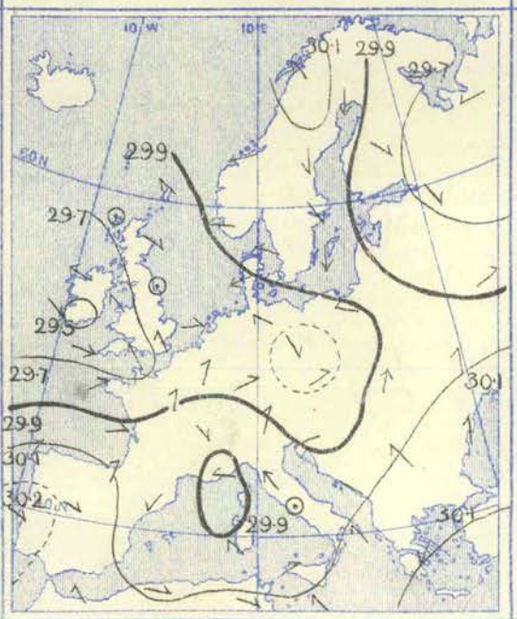
Barometer at 8 a.m. ranging from 30·1 ins. to 30·2 ins. and upwards in an anticyclone embracing central and a large portion of southern Europe, to less than 29·7 ins. in a depression having its minimum near St. Petersburg, and to a similar value in a depression off our north-west coasts. Some secondaries shown over the United Kingdom and the adjacent parts of the North Sea. Anticyclone receding south-eastwards later, and a fresh depression encroaching on Ireland. Secondaries moving eastwards towards Denmark and Germany.

Wednesday, 14th September, 1904.

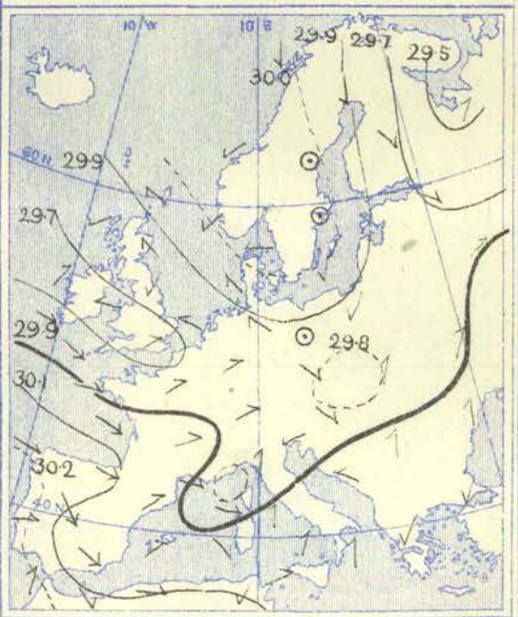
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. cloudy or dull and very unsettled generally, but fine and bright in many parts of Norway, southern Europe, and Algeria. Rainy in the Shetlands and the south and south-west of our Islands, at Fanö, Nice, some stations in central Europe, and in Finland and the north of Russia. Rain falling later in most parts of our Islands and the Continent, but weather remaining fine in the Peninsula. Largest amounts, 0·75 in., with thunder, at Dungeness, and 1·8 ins. at Naples.

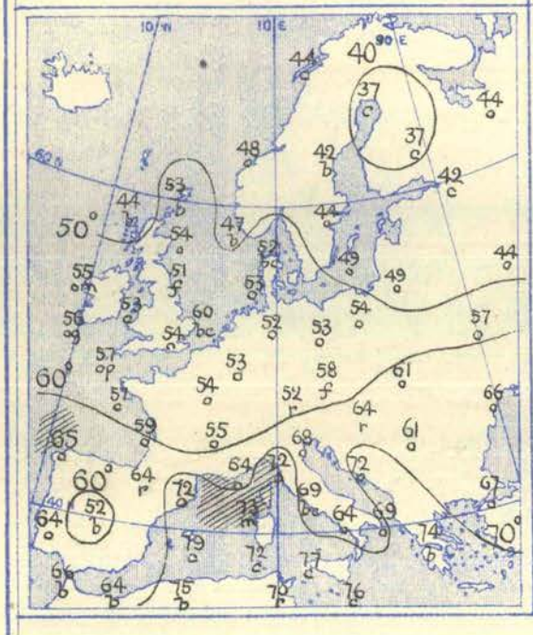
Temperature changed irregularly as a whole, but risen quickly over the central countries. Morning readings highest, 80° at Palma, 77° at Barcelona, 76° at Malta, and above 70° at many other southern stations. Lowest, (1) 35° at Uleaborg, (2) 40° at Stornoway, (3) 43° at Kharkov, (4) 48° at Hermanstadt. Remaining below 60° in many parts of our Islands, but rising to 90° at Athens, 88° at Palma, 87° at Brindisi, above 80° in many southern localities, and above 70° in central Europe.

Wind in morning light and anticyclonic over Scandinavia and also over the extreme south-east and south-west of our area. Partial or complete cyclonic circulations prevailing elsewhere. East-North-Easterly wind strong in Denmark, Southerly and South-Easterly winds fresh or strong on our own southern coasts, and Northerly wind strong at Haparanda and Wisby. No great change later.

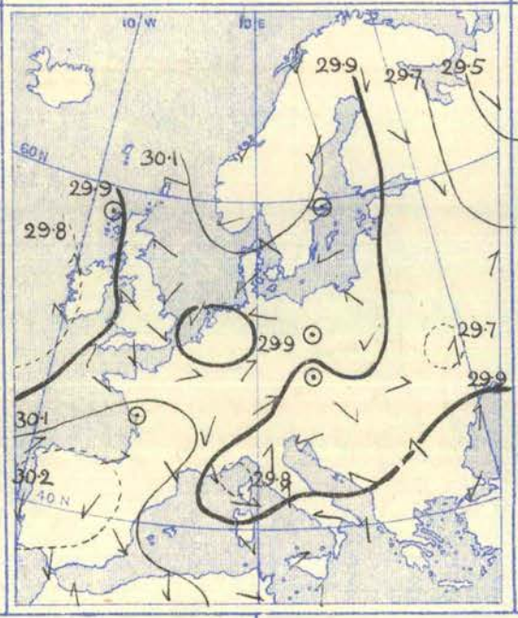
Barometer showing three high areas with readings above 30·1 ins.—one over the Iberian Peninsula, another over the north of Norway, and a third over south-eastern Europe. The readings were lowest—less than 29·6 ins. in a depression over South Ireland, and but little higher in a secondary over the south-west of England; below 29·7 ins. in a larger disturbance over the north of Russia; below 29·8 ins. over a good part of Prussia, and less than 29·9 ins. over the Gulf of Genoa and its vicinity. Pressure increasing briskly on our south-west coasts later. Depressions over Russia and the Gulf of Genoa becoming deeper.

Thursday, 15th September, 1904.

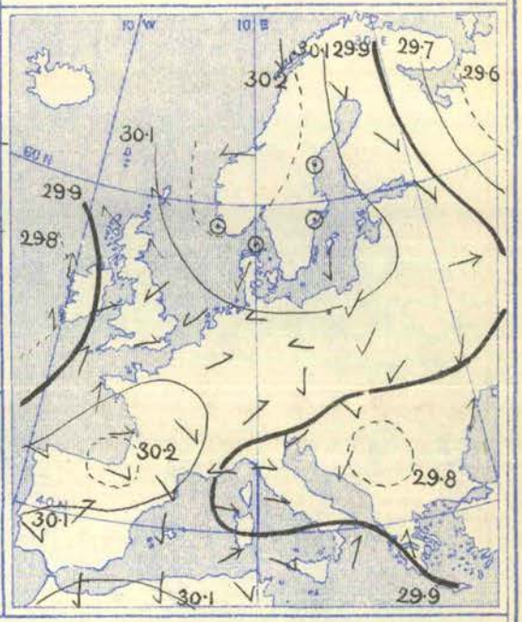
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast generally, with showers on our south-west coasts, rain at Biarritz, Tunis, and in some parts of central Europe, and fog at Breslau, Prague, and Shields. Fine and bright in Algeria, the south of Spain, and in most parts of Scandinavia. Rain falling later in Ireland, the south-west of England, and over the central countries of the Continent. Largest amounts, 0·7 in. at Valencia and 0·9 in. at Vienna.

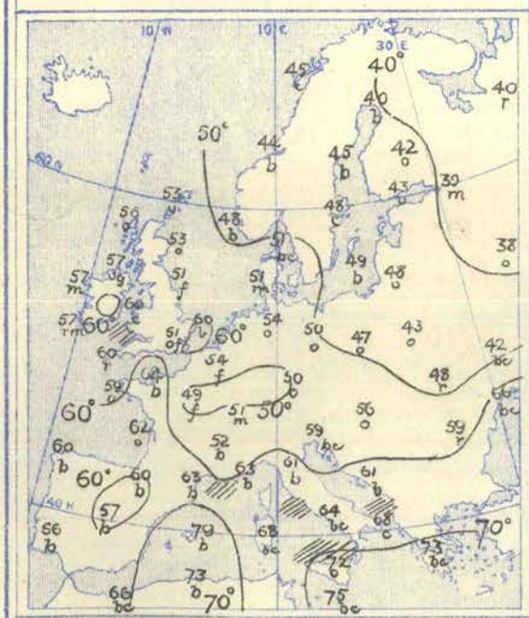
Temperature changed little generally, but fallen quickly at Breslau, and risen quickly in the south of Russia and most of Poland. Morning readings ranging from nearly 80° at a few southern stations, and 66° at Odessa, to 49° at Le Mans, and to below 50° in most northern regions. Lowest values, 39° at Karlstad and 37° at Kuopio. Rising subsequently to 67° in the south-east of England, above 70° on the shores of the Mediterranean, and above 80° in places. Highest figures, 86° at Palma, Brindisi, and Athens, and 88° at Algiers.

Wind at 8 a.m. cyclonic generally, but anticyclonic over Scandinavia and the Iberian Peninsula. Little force generally, but North-Westerly strong over the Gulf of Genoa. Latter subsiding during day, but Southerly and South-Easterly winds becoming strong or fresh on our own western coasts.

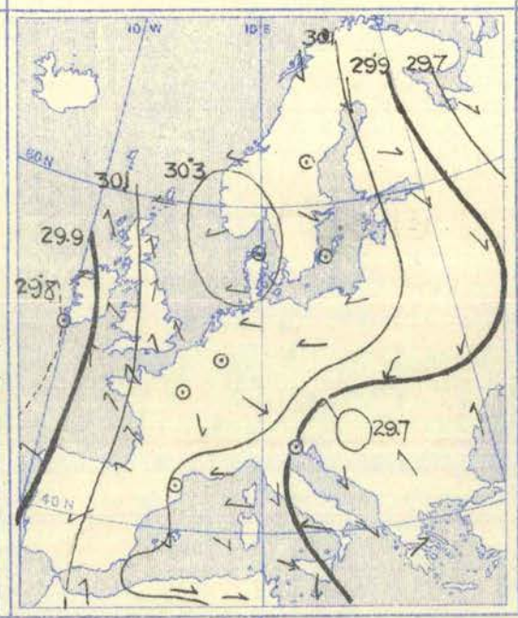
Barometer at 8 a.m. ranging from above 30·2 ins. in Spain and Portugal, and above 30·1 ins. in Norway, to below 29·5 ins. in the far north of Russia. Depressions less deep also shown off the west of Ireland, over the Netherlands and their neighbourhood, the Gulfs of Genoa and Venice, and over the south-west of Russia. Southern anticyclone moving north-eastwards during day, and that in the north extending southwards. Dutch depression dispersing, and that off Ireland travelling northwards. Continental disturbances moving eastwards.

Friday, 16th September, 1904.

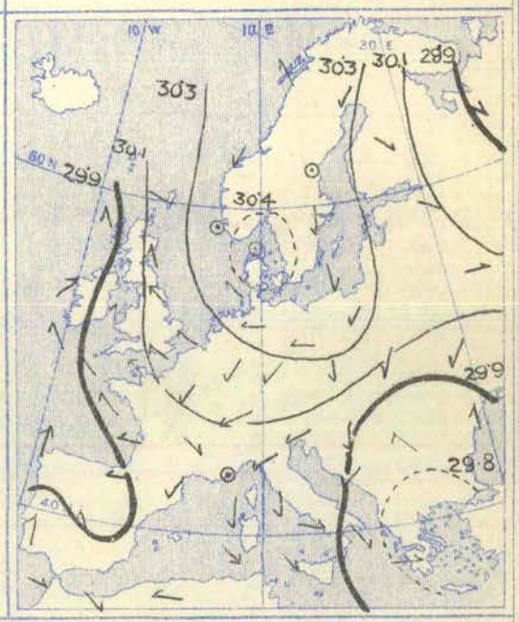
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over Scandinavia, at several English stations, and over the countries bordering the Mediterranean, and Portugal. Fog prevailing at Brussels, Paris, Roche's Point, and in some English localities, and rain in the west of Ireland, the south-west of England, many parts of central Europe, and at Archangel. Rain later over our western and northern districts, as well as in Austria—as much as 0·8 in. measured at Blacksod Point and 0·7 in. at Valencia.

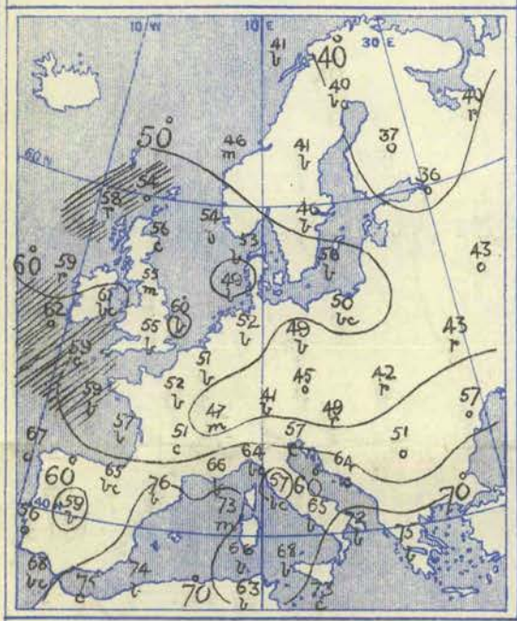
Temperature fallen over Russia, the central countries, and Italy, risen in most other regions. Morning readings highest, 79° at Palma, 75° at Malta, and above 70° at a few other of the most southern stations. Lowest, (1) 38° at Moscow and 39° at St. Petersburg and Uleaborg, (2) 43° at Karlstad, (3) 49° at Paris and Le Mans, (4) 51° in London, at Nottingham, and Shields. Rising during day to 65° and upwards in many parts of the United Kingdom, to 70° at Manchester, and 72° in London. Maxima over central and southern Europe ranging from 80° and rather more over Algeria and Spain, to above 70° at many of the French and Italian stations.

Wind in morning light or moderate from South or South-East over the United Kingdom and the Bay of Biscay. A very extensive anticyclonic movement prevailing over Scandinavia, the Baltic, the greater part of Germany, and the east of France, and a cyclonic circulation of no great force over the more south-eastern countries. No great change later beyond a freshening of the South-Easterly winds over these Islands.

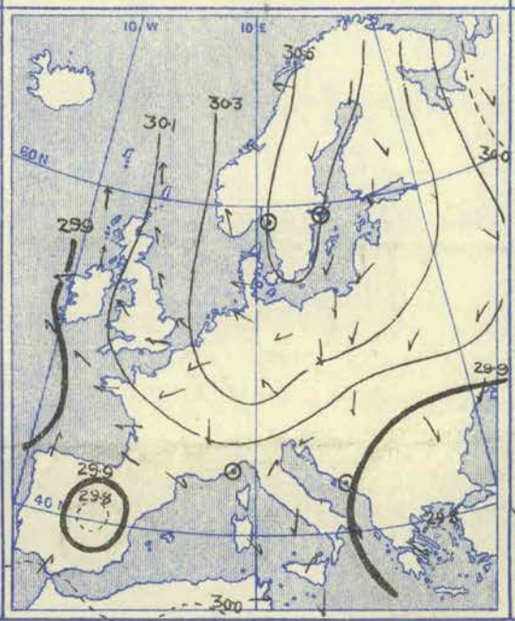
Barometer at 8 a.m. ranging from above 30·3 ins. in a large high pressure system having its centre over Denmark and the adjacent portion of Norway, to 29·7 ins. and less in a depression over southern Hungary and in another disturbance over the north of Russia. Below 29·8 ins. off the west of Ireland. Anticyclone moving eastwards later and increasing in height, and depression over Hungary travelling away to the south-eastward.

Saturday, 17th September, 1904.

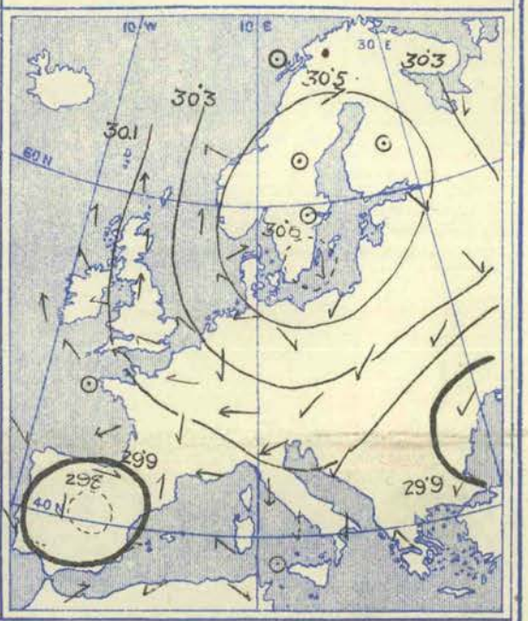
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over western and southern Europe generally, but dull on our extreme western coasts, as well as in many parts of Austria and Russia, with rain at Stornoway and Blacksod Point, and also at Archangel and several stations in south-eastern Europe. Rain later over the north-western parts of these Islands and at Bodö, but remaining very dry over Europe generally.

Temperature risen somewhat over these Islands, fallen at most of the Continental stations. Morning readings highest, 76° at Barcelona, 75° at Oran and Athens, and above 70° at several stations on the shores of the Mediterranean, above 60° over the greater part of Spain and Italy. Highest in these Islands, 61° at Leith, Holyhead, Portland, and Clacton-on-Sea. Lowest, 36° at Hangö and St. Petersburg, 37° at Kuopio, 38° at Helsingfors, and only 40° or slightly above over northern Russia and the Baltic generally. Rising subsequently to 73° at Leith, 72° in London, and 71° at Jersey, exceeding 70° over the greater part of southern Europe, reaching 86° at Tunis and Athens, and touching 88° at Madrid, Bilbao, and Alicante.

Wind Easterly or South-Easterly over western Europe as a whole, but Southerly on our extreme northern and north-western coasts. Northerly to North-Easterly over Russia, Scandinavia, and central Europe, blowing strongly on exposed parts of our western and northern districts. No change of importance later.

Barometer risen somewhat in most places. Highest, 30·5 ins. and upwards over Sweden. Lowest, 29·8 ins. and less in a small system over the Spanish Peninsula, and 29·9 ins. and less off the west of Ireland, and also in a shallow disturbance over south-eastern Europe. Anticyclone over Sweden drifting southwards later and increasing somewhat in height. No material change elsewhere.

IV.—GENERAL NOTES, etc.

At the commencement of the period an anticyclone of moderate intensity travelled steadily north-eastwards across the United Kingdom, and occasioned very fine weather in all districts. As it passed away a depression of considerable depth moved in a north-north-westerly direction from our south-west coasts along the west of Ireland and away again over the Atlantic, the progress of the disturbance being attended by considerable falls of rain over western Europe generally (with thunderstorms in the west of France), and by a decided increase of wind from East and South-East over the whole of our Islands. Over the Irish Sea and the north of Ireland a moderate to fresh gale from East was experienced on Monday.

On Wednesday, another disturbance of a rather complex character came in from the Atlantic, the system moving in this case due eastward across the more southern parts of our Islands. Rain again fell generally, heavily at some of our western stations, but no material increase of wind was reported on any part of our coasts.

On reaching the Netherlands the new depression filled up, and during the closing days of the week a large anticyclone spread from the northward over nearly the whole of Europe. The central area of this system lay at first over Scandinavia, and afterwards over Denmark, and in all the western countries the wind was South-Easterly or Southerly, with a tendency to increase on our western and southern coasts. The weather was fine generally, and although the nights were cool, the day temperatures in these Islands were above the average for the time of year.

Early in the week thunderstorms were experienced in many parts of France and Algeria, the accompanying rainfall being, in some instances, very heavy.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 218.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	11·9	− 13·1	13	− 15
STRATHPEFFER SPA	27·3	+ 0·5	31	+ 1
CRATHES	17·0	—	19	—
EDINBURGH	31·7	+ 7·4	36	+ 8
COCKLE PARK	37·2	—	42	—
NEWCASTLE-on-TYNE	30·2	—	34	—
YORK	39·7	+ 12·0	45	+ 14
SKEGNESS	48·5	—	55	—
CROMER	49·3	—	56	—
LOWESTOFT	54·0	—	61	—
DUNMOW	43·6	—	50	—
SHEFFIELD	29·9	—	34	—
WORKSOP	37·8	+ 10·3	43	+ 12
THURCASTON	34·8	+ 5·5	40	+ 6
MARGATE	44·9	+ 10·3	51	+ 12
BROADSTAIRS	45·7	—	52	—
RAMSGATE	45·8	—	52	—
EASTBOURNE	46·0	+ 6·5	52	+ 7
BRIGHTON	45·7	+ 6·6	52	+ 8
WORTHING	46·6	—	53	—
BOGNOR	50·1†	—	57†	—
WESTBOURNE	44·5†	+ 6·0	51†	+ 7
VENTNOR HOSPITAL	43·4	+ 2·7	49	+ 3
BOURNEMOUTH	42·5	—	48	—
MARLBOROUGH	37·5	+ 6·8	43	+ 8
SOUTHPORT	33·6	—	38	—
RHYL	24·3	—	39	—
ABERDOVEY	43·5†	—	49†	—
TENBY	—	—	—	—
TORQUAY	43·0	+ 5·3	49	+ 6
NEWQUAY	34·0	− 2·2	39	− 3
GUERNSEY	59·8†	+ 18·1	68†	+ 21

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 20, page 116	Bawtry	—	—	60·9	—	—	—	—	—	—	—	—	—	—	—	—
" " "	Hereford	—	? 33	? 62·1	? 40·8	? 50·8	− 1·2	67	3	—	—	—	—	—	—	—
" " "	Stonyhurst	—	—	56·7	—	49·0	− 1·2	49	—	—	—	—	—	—	—	—
" " "	Cullompton	—	—	—	—	—	—	—	—	—	—	—	44·8	− 0·8	—	—
" " "	Nottingham	—	—	—	—	—	—	—	—	—	—	—	63·9	—	—	—
No. 20, page 120	Cockle Park	—	—	—	—	—	—	—	—	—	—	—	65·0	—	58	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 38. THIRTY-EIGHTH WEEK, ENDING SATURDAY, SEPTEMBER 24TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS (See p. 224.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	73	30	62·0	44·6	52·9	2 above	76	+17	0	− 3	1745	+ 27	477	− 79
	1. SCOTLAND, EAST	73	31	61·3	43·7	52·1	1 above	71	+ 5	0	− 3	1908	−138	585	− 11
	2. ENGLAND, N.E.	69	35	60·7	47·5	53·8	0 (average)	83	+ 6	0	− 1	2331	+108	431	− 60
	3. ENGLAND, EAST	66	35	60·3	48·8	54·3	1 below	86	− 3	0	− 2	2614	+ 38	404	−134
	4. MIDLAND COUNTIES	68	33	61·6	43·1	51·9	2 below	69	−10	0	− 3	2412	−130	474	− 77
	5. ENGLAND, SOUTH	69	32	61·6	46·7	53·8	3 below	83	−14	0	− 1	2661	−138	345	− 53
Principal Grazing Districts.	6. SCOTLAND, WEST	72	35	62·8	46·0	54·0	2 above	84	+13	0	− 2	2091	− 66	375	− 44
	7. ENGLAND, N.W.	72	35	62·5	45·7	53·7	1 below	82	+ 1	0	− 1	2287	− 80	386	− 14
	8. ENGLAND, S.W.	68	41	61·6	48·2	54·6	1 below	88	− 2	0	− 1	2604	− 8	252	− 54
	9. IRELAND, NORTH	68	35	61·5	46·8	53·8	1 above	83	+ 9	0	− 1	2118	−170	337	− 21
	10. IRELAND SOUTH	68	37	62·9	47·7	55·0	0 (average)	91	+ 8	0	− 1	2494	− 96	232	− 25
	— CHANNEL ISLANDS	68	49	62·0	52·8	57·2	2 below	106	− 6	0	0	2969	− 13	80	− 41

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 224.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	less than half	11 less	173	+13	36·1	+ 3·2	46	+24	55	+28	1026	+ 58	28	+ 2
	1. SCOTLAND, EAST	1	1	6 less	150	+11	20·6	− 1·1	38	+12	44	+14	1044	− 68	29	− 2
	2. ENGLAND, N.E.	2	4	2 less	124	− 3	16·1	− 1·2	42	+13	49	+15	1199	− 30	34	− 1
	3. ENGLAND, EAST	3	2	3 less	120	− 7	15·1	− 1·6	50	+18	59	+21	1398	+ 29	40	+ 1
	4. MIDLAND COUNTIES	2	1	5 less	131	+ 9	19·0	− 0·2	42	+19	51	+22	1190	+ 40	34	+ 1
	5. ENGLAND, SOUTH	2	1	5 less	132	+13	19·4	+ 0·5	53	+19	63	+23	1389	+ 42	40	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	0	—	11 less	150	+ 7	35·6	+ 2·0	46	+19	54	+22	1125	− 44	32	− 1
	7. ENGLAND, N.W.	1	less than half	8 less	145	+11	22·5	− 0·8	46	+18	54	+22	1224	+ 95	35	+ 3
	8. ENGLAND, S.W.	0	less than half	9 less	145	+10	27·6	+ 2·3	53	+20	62	+23	1322	− 73	38	− 2
	9. IRELAND, NORTH	0	—	8 less	182	+19	28·8	+ 3·8	56	+31	66	+36	1056	− 10	30	0
	10. IRELAND, SOUTH	0	less than half	7 less	162	+16	30·8	+ 3·2	54	+24	64	+28	1157	− 53	33	− 2
	— CHANNEL ISLANDS	2	less than half	7 less	163	+26	25·1	+ 4·2	59	+21	70	+24	1544	− 63	44	− 2

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during the first few days of the week was extremely fine and bright, the only rain reported being a slight fall in Ireland and the Hebrides on Sunday. After Thursday the sky gradually became more cloudy, and rain set in, at first over England, and afterwards in many parts of Ireland and Scotland. The amount of precipitation was, however, as a rule, very small.

Temperature was slightly below the mean in most of the English districts, but a trifle above it in Scotland and the north of Ireland. The highest readings were recorded, as a rule, in the earlier half of the week, when the thermometer rose to between 66° and 69° over the greater part of England and Ireland, and to 72° or 73° in Scotland and England N.W. The lowest readings, which occurred at times varying greatly in different localities, ranged from 30° in Scotland N., 31° in Scotland E., and 32° in England S., to 41° in England S.W., and to 49° in the Channel Islands. On the nights of the 19th and 20th ground frost occurred at many places in the northern and central parts of Great Britain.

Rainfall was considerably less than the mean, a large number of stations in the grazing districts reporting an entire absence of precipitation. The only appreciable falls were those which occurred over the northern and eastern parts of England in the latter half of the week.

Bright Sunshine was greatly in excess of the mean. More than half the possible duration was recorded in all districts excepting Scotland E. and England N.E., more than 60 per cent. in Ireland and the southern parts of England, and as much as 70 per cent. in the Channel Islands.

Barometer and Wind. The anticyclone which spread over western Europe from the northward at the close of the previous week remained in force throughout the greater part of this period, its central portion being situated, as a rule, over Scandinavia, Denmark, and the Baltic. The prevailing winds were Easterly to North-Easterly over England (strong in force on our south and east coasts), but South-Easterly in Ireland and Southerly in Scotland. On Friday, however, the anticyclone began to drift away in a north-easterly direction, while a complex area of low pressure spread up from France and the Spanish Peninsula. The winds over the United Kingdom now became North-Easterly or Northerly very generally, but were, as a rule, only light or moderate in force. Quite at the close of the week the wind on our southern coasts became rather variable.

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II.—DATA from which the SUMMARY on page 223 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	58	41	55·4	48·1	51·6	+ 1·9	67	0	1	0·01	− 0·83	*	*	*	*
	Stornoway	64	38	61·6	43·6	52·2	+ 2·1	71	0	2	0·05	− 0·95	48·8	+ 24·7	57	+ 29
	Wick	63	35	61·3	46·7	53·7	+ 2·9	82	0	0	0·00	− 0·65	*	*	*	*
	Lairg Ⓢ	73	30	65·9	41·3	53·0	+ 3·7	80	2	1	0·02	− 0·72	*	*	*	*
	Glencarron Ⓢ	70	36	64·1	43·2	53·2	+ 3·3	78	0	1	0·01	− 1·83	*	*	*	*
	Fort Augustus Ⓢ	68	38	62·9	43·5	52·7	+ 1·0	75	0	0	0·00	− 0·95	40·5	+ 22·9	48	+ 27
	Fort William	69	40	62·8	45·8	53·9	+ 1·5	83	0	0	0·00	− 1·70	54·4	+ 32·9	64	+ 39
1. SCOTLAND, E.	Nairn	70	33	62·4	42·3	51·9	+ 0·1	69	0	1	0·03	− 0·54	*	*	*	*
	Aberdeen	61	49	58·6	50·9	54·6	+ 2·6	88	9	1	0·10	− 0·57	41·7	+ 14·1	49	+ 17
	Braemar Ⓢ	65	31	58·4	40·2	48·9	+ 0·7	56	5	1	0·02	− 0·76	*	*	*	*
	Ochtertyre Ⓢ	70	40	63·4	42·0	52·2	+ 0·4	71	0	1	0·03	− 0·78	*	*	*	*
	Leith Ⓢ	73	37	63·7	45·3	54·1	+ 0·7	85	0	1	0·09	− 0·39	*	*	*	*
	Marchmont Ⓢ	70	35	61·3	41·4	50·9	− 0·1	65	2	1	0·11	− 0·61	39·3	+ 14·3	46	+ 17
2. ENGLAND, N.E.	Alnwick Castle	63	37	59·5	43·5	51·1	− 1·0	64	0	1	0·53	− 0·11	*	*	*	*
	Durham	66	35	60·4	43·0	51·3	− 1·4	65	0	1	0·48	− 0·05	37·5	+ 11·5	44	+ 14
	Shields	63	48	59·4	47·7	53·3	+ 0·3	79	0	1	0·23	− 0·28	*	*	*	*
	Scarborough Ⓜ	62	50	59·5	51·4	55·3	+ 1·3	93	0	3	0·09	− 0·50	36·5	—	47	—
	Spurn Head	62	52	60·9	54·3	57·4	+ 2·1	108	0	2	0·42	− 0·02	*	*	*	*
	Lincoln	68	44	62·4	47·9	54·8	+ 0·2	90	0	3	0·31	− 0·19	*	*	*	*
	Fulbeck (Lincolnshire)	69	39	62·8	44·8	53·4	− 1·0	80	0	3	0·38	− 0·10	45·4	—	53	—
3. ENGLAND, E.	Hillington Ⓜ	66	39	61·2	45·1	52·8	− 1·8	76	0	3	0·48	− 0·13	48·5	+ 18·8	57	+ 22
	Yarmouth	62	52	59·1	53·7	56·3	+ 0·9	100	0	3	0·28	− 0·34	*	*	*	*
	Geldeston	63	48	60·2	49·5	54·6	− 1·0	88	0	3	0·40	− 0·15	48·0	+ 13·6	57	+ 16
	Cambridge	66	36	61·3	43·3	51·9	− 3·6	69	0	3	0·20	− 0·29	49·9	+ 17·2	59	+ 20
	Felixstowe	62	38	59·7	50·2	54·7	− 0·4	89	0	2	0·22	—	48·1	—	57	—
	Clacton-on-Sea	62	50	59·6	54·3	56·8	+ 1·1	104	0	3	0·17	—	51·6†	—	61†	—
	Rothamsted	65	35	60·6	43·0	51·4	− 2·6	66	0	3	0·11	− 0·50	51·8	+ 20·5	61	+ 24
	Shoeburyness	62	49	60·6	51·4	55·8	− 0·7	97	0	2	0·07	− 0·41	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	67	39	60·6	43·5	51·6	− 1·0	67	0	2	0·19	− 0·49	39·9	—	47	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	68	36	62·3	44·4	52·9	− 1·6	76	0	2	0·25	− 0·31	44·6	—	53	—
	Colly Weston (Stamford)	68	40	63·0	44·0	53·0	− 1·8	77	0	3	0·42	− 0·14	*	*	*	*
	Cheadle Ⓜ	67	41	60·3	46·4	53·0	+ 0·4	77	0	1	0·04	− 0·68	*	*	*	*
	Birmingham (Edgbaston)	66	40	60·4	41·6	50·6	− 3·4	62	1	2	0·15	− 0·44	37·8	—	45	—
	Shrewsbury	68	34	62·7	41·1	51·4	− 2·7	70	3	1	0·02	—	*	*	*	*
	Hereford Ⓜ	67	33	61·9	40·0	50·4	− 4·0	67	6	2	0·06	− 0·54	*	*	*	*
	Cirencester	66	40	60·9	43·7	51·9	− 1·7	69	0	3	0·09	− 0·58	51·7	+ 21·4	61	+ 25
	Oxford	67	38	62·1	43·6	52·4	− 2·6	73	0	3	0·06	− 0·51	52·0	+ 20·0	61	+ 24
5. ENGLAND, S.	London	68	42	63·4	46·3	54·4	− 2·2	87	0	2	0·16	− 0·37	47·8‡	+·20·2‡	56‡	+ 24‡
	Wisley (Surrey)	68	32	61·7	43·1	52·0	− 5·9	70	0	3	0·24	—	48·7	—	57	—
	Swarraton (Alresford) Ⓜ	67	39	61·6	43·5	52·1	− 1·9	71	0	1	0·06	− 0·62	*	*	*	*
	Tunbridge Wells Ⓜ	66	39	60·9	42·9	51·5	− 5·7	67	0	3	0·18	—	57·3	—	67	—
	Dungeness	64	50	60·4	52·1	56·1	− 1·1	99	0	3	0·30	− 0·33	54 2	—	64	—
	Hastings (St. Leonards)	63	43	60·5	49·5	54·7	− 2·5	89	0	3	0·16	− 0·51	56·3	+ 18·7	66	+ 22
	Southampton	69	42	64·4	46·7	55·1	− 1·6	92	0	1	0·02	− 0·65	56·8	+ 21·8	67	+ 26
	Portland Bill	64	47	61·3	51·0	55·9	− 1·2	97	0	0	0·00	—	*	*	*	*
	Shaftesbury Ⓜ	65	42	59·8	45·2	52·2	− 2·4	71	0	0	0·00	− 0·79	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	68	39	63·9	47·0	55·0	+ 2·5	91	0	1	0·01	− 1·66	*	*	*	*
	Glasgow	65	39	60·0	46·2	52·8	+ 0·9	76	0	1	0·01	− 0·85	37·2	+ 15·8	44	+ 19
	Cally Ⓢ	67	35	64·2	42·1	52·6	+ 0·6	74	0	0	0·00	− 1·04	*	*	*	*
	Aspatria	72	37	65·7	43·3	54·0	+ 1·0	84	0	0	0·00	—	48·1	—	57	—
	Douglas (Isle of Man)	63	48	60·1	51·2	55·4	+ 2·4	94	0	0	0·00	− 0·86	53·4	+ 21·9	63	+ 26
7. ENGLAND, N.W.	Newton Rigg	66	35	61·4	41·2	50·8	− 1·3	65	2	2	0·08	—	39·4	—	46	—
	Stonyhurst	68	44	61·0	47·4	53·9	+ 0·9	83	0	2	0·05	− 1·09	44·9	+ 17·6	53	+ 21
	Blackpool Ⓜ	69	40	62·9	44·7	53·4	− 1·0	80	0	1	0·02	− 0·83	41·8	+ 15·0	49	+ 18
	Manchester (Prestwich)	70	42	63·1	46·6	54·5	+ 1·2	88	0	1	0·02	− 0·88	47·7	—	56	—
	Liverpool Obsy. (Bidston)	66	45	61·9	47·0	54·1	− 0·2	85	0	2	0·04	− 0·70	40·7	—	48	—
	Chester (Hawarden Bridge)	69	37	63·2	44·6	53·5	− 2·0	81	0	2	0·05	—	*	*	*	*
	Llandudno Ⓜ	72	47	63·1	49·7	56·1	+ 0·3	99	0	1	0·03	− 0·69	49·4	+ 22·3	58	+ 26
	Holyhead	71	45	63·1	49·1	55·8	+ 0·4	97	0	1	0·02	− 0·73	*	*	*	*
	Bettws-y-Coed	71	38	62·7	41·1	51·4	− 4·0	70	3	1	0·02	—	46·1	—	54	—
8. ENGLAND, S.W.	Pembroke	64	45	61·3	50·4	55·6	− 0·5	95	0	0	0·00	− 0·78	49·3	+ 16·8	58	+ 20
	Clifton	68	42	62·2	46·0	53·7	− 1·4	82	0	1	0·03	− 0·75	*	*	*	*
	Bath	68	41	62·9	45·3	53·7	− 2·3	82	0	0	0·00	− 0·70	50·5	—	59	—
	Arlington (N. Devon)	67	45	61·3	47·9	54·3	− 0·1	86	0	1	0·01	− 1·15	*	*	*	*
	Cullompton Ⓜ	68	41	62·7	45·0	53·4	− 2·0	80	0	0	0·00	− 0·75	51·0	+ 19·3	60	+ 23
	Falmouth	61	47	59·4	52·2	55·6	− 0·7	95	0	0	0·00	− 1·00	55·3	+ 19·9	65	+ 24
	Plymouth	65	46	61·1	50·9	55·8	− 0·5	97	0	0	0·00	− 0·80	57·7	+ 23·7	68	+ 28
9. IRELAND, N.	Malin Head	65	44	60·7	48·6	54·4	+ 0·6	87	0	0	0·00	− 0·73	*	*	*	*
	Edenfel (Omagh)	67	38	62·1	43·9	52·6	+ 1·2	74	0	0	0·00	− 0·80	*	*	*	*
	Blacksod Point	64	44	61·1	50·1	55·3	+ 0·5	93	0	1	0·01	− 0·93	*	*	*	*
	Markree Castle	68	35	64·0	43·3	53·2	+ 0·8	78	0	0	0·00	− 0·89	54·5	+ 30·3	64	+ 36
	Armagh	64	37	61·5	42·8	51·7	− 0·6	68	0	2	0·01	− 0·63	57·7	+ 31·6	68	+ 37
	Donaghadee	62	48	59·6	51·9	55·6	+ 2·2	95	0	0	0·00	− 0·64	*	*	*	*
10. IRELAND, S	Dublin	66	44	61·8	49·7	55·5	+ 0·9	95	0	0	0·00	− 0·53	57·3	+ 24·8	67	+ 29
	Birr Castle	68	37	63·0	43·0	52·5	− 0·7	74	0	0	0·00	− 0·66	51·6	+ 22·8	61	+ 27
	Kilkenny	65	39	61·0	46·6	53·5	− 0·4	81	0	0	0·00	− 0·63	*	*	*	*
	Waterford	67	44	62·4	48·1	54·9	+ 0·2	90	0	0	0·00	− 0·75	*	*	*	*
	Roche's Point	62	47	60·6	52·1	56·2	+ 0·8	99	0	1	0·01	− 0·84	*	*	*	*
	Valencia	67	43	63·9	48·4	55·8	0·0	97	0	0	0·00	− 1·02	53·7	+ 23·7	63	+ 28
	Killarney	68	40	66·2	47·9	56·6	+ 2·1	102	0	2	0·11	− 0·82	*	*	*	*
	Foynes	68	40	64·5	45·9	54·8	+ 0·5	90	0	0	0·00	− 0·70	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	53	61·0	54·1	57·4	− 0·4	108	0	1	0·02	− 0·73	52·9	+ 15·3	62	+ 18
	Jersey	68	49	63·0	51·4	56·9	− 2·6	104	0	2	0·03	− 0·71	64·0	+ 23·5	75	+ 28

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

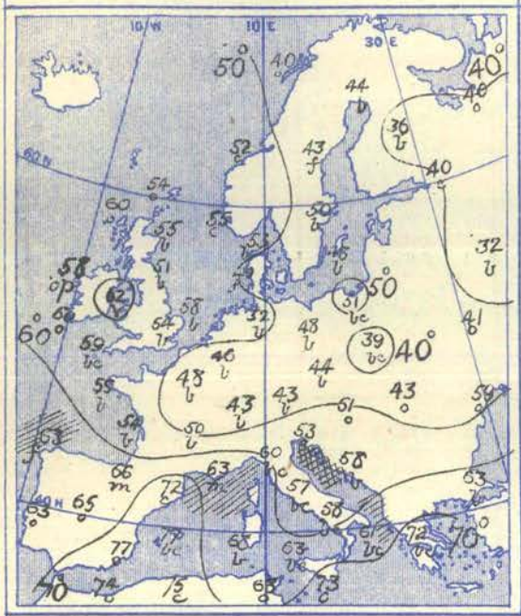
† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

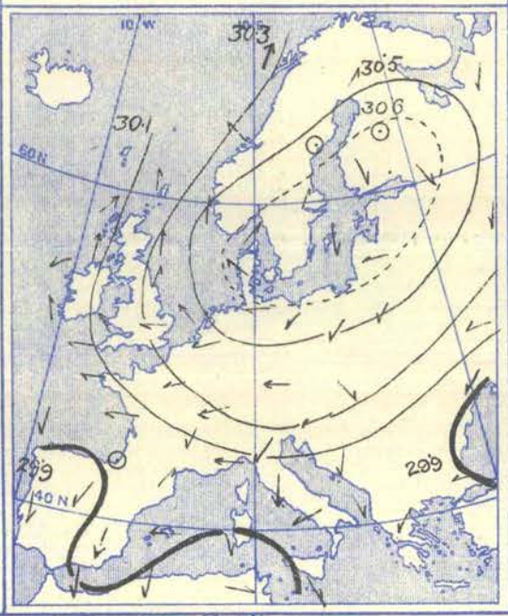
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 18th September, 1904.

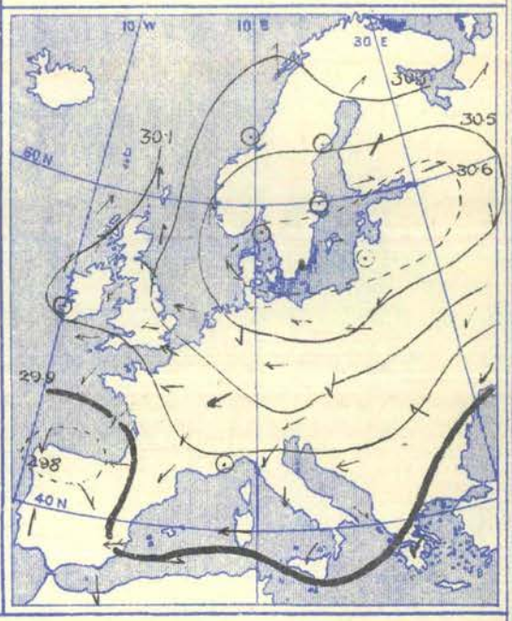
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over these Islands generally and at most of the Continental stations, but dull on the west coasts of Ireland and Scotland, as well as in southern Russia, with rain at Nicolaieff, and showers at Blacksod Point. Rain later at a few of our western and northern stations, and also over central Spain and south-eastern Europe—as much as 1·10 ins. measured at Charkow and 0·99 in. at Nicolaieff. Lightning seen at Biarritz at night.

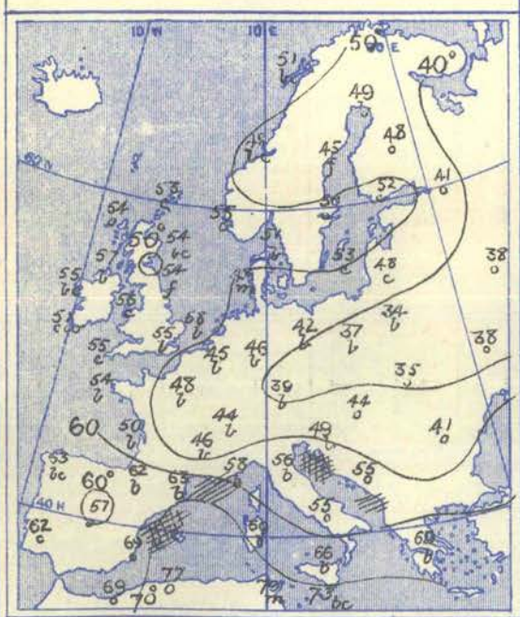
Temperature fallen somewhat in most places. Morning readings highest, 77° at Alicante and Palma, 75° at Algiers, above 70° at several Mediterranean stations, and 60° or above over the Riviera and Spain. Highest in our Islands, 62° at Holyhead. Lowest, 32° at Moscow, 36° at Kuopio, 39° at Warsaw, and 40° at Archangel, St. Petersburg, and Karlstad. Rising during day to considerably above 60° in many parts of the United Kingdom, to 71° at Manchester and Bettws-y-Coed, 72° at Aberystwyth, and 73° at Leith. Maxima exceeding 70° recorded over southern Europe generally, but thermometer touching 80° in Algeria and at several stations in the Spanish Peninsula.

Wind Northerly to North-Easterly over Russia, Austria, and Germany, Easterly over Italy and France, South-Easterly in England and Ireland, South-Westerly over Scotland and Scandinavia. Strong in force at some of the Channel stations, and also in the Mediterranean. No important change later.

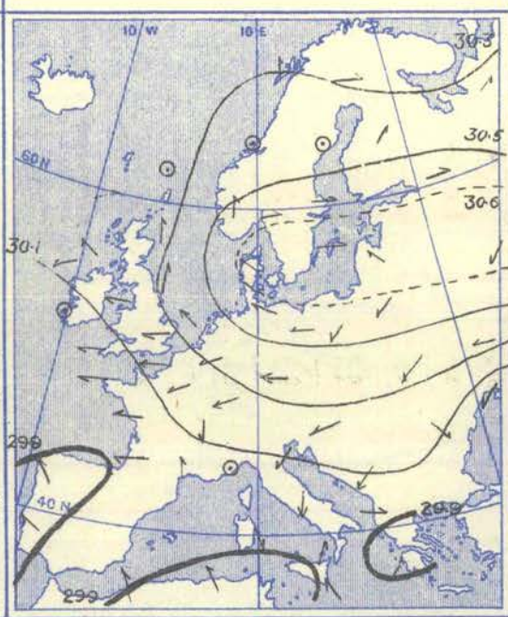
Barometer highest, 30·6 ins. and upwards in the central area of an anticyclone lying over Denmark, the south of Sweden, and the Baltic Provinces. Lowest, 29·9 ins. and less in several shallow systems over southern and south-eastern Europe. High pressure area moving slowly southwards later. No material change elsewhere.

Monday, 19th September, 1904.

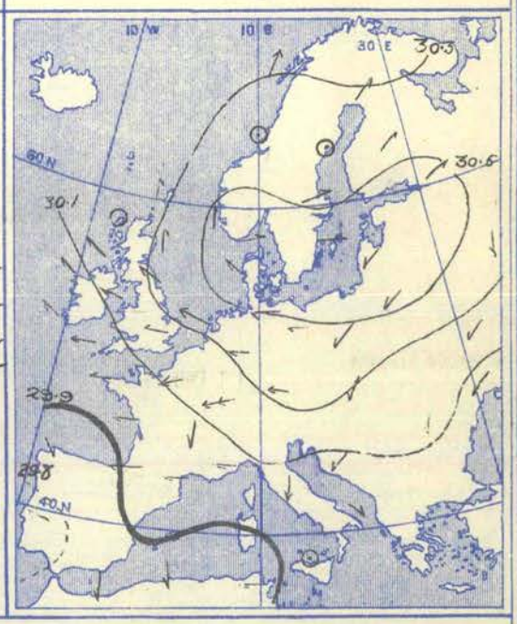
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull over northern and eastern Europe, and also in the Shetlands and Hebrides, fine and bright elsewhere. Heavy rain later at many of the Mediterranean stations, as much as 1·18 ins. measured at San Fernando and 1·65 ins. at Alicante, but remaining very dry over our Islands and on the Continent generally.

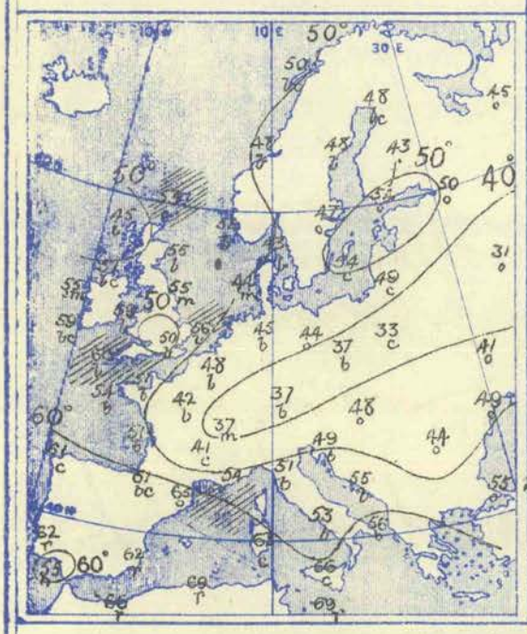
Temperature risen somewhat over Scandinavia and the Baltic Provinces; fallen in most other places. Morning readings highest, 77° at Tunis, 73° at Malta, and 72° at Oran, above 60° over Spain and Greece. Highest in our Islands, 60° at Clacton-on-Sea. Lowest, (1) 32° at Archangel, 34° at Warsaw, 38° at Moscow and Charkow, and 40° or slightly above over Germany and Austria, (2) 49° at Leith. Rising during day to 71° at Holyhead and to 70° at Nairn, but falling at night to 39° at Nairn and 38° at Oxford, and to 31° on the grass at the last named station. Continental maxima high only over southern Europe and the Mediterranean. The highest recorded being 77° at Cagliari, 81° at Palermo, 86° at Bilbao and Algiers, and 97° at Tunis.

Wind still showing a distinct anticyclonic circulation, being North-Easterly to Easterly over the Continent generally, as well as in England and Ireland, Southerly to South-Westerly in Scotland, and Westerly in Scandinavia, blowing strongly on exposed parts of our eastern and southern coasts. Strong North-Easterly and Easterly winds also reported from many stations in southern Europe. No important change later.

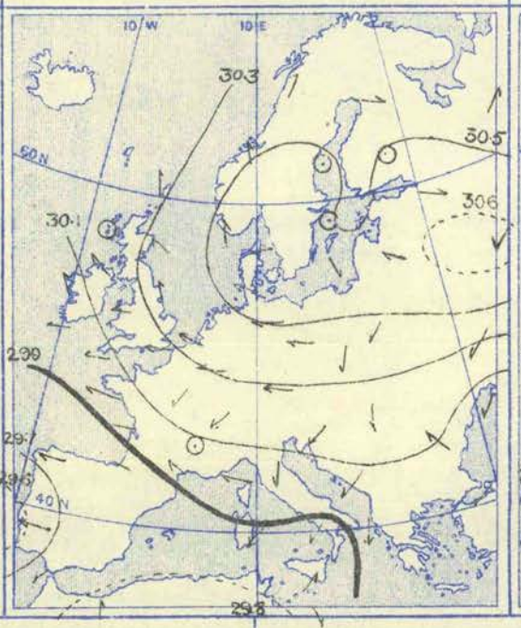
Barometer highest, 30·6 ins. and upwards in the central area of a large anticyclone situated over Denmark, North Germany, the Baltic Provinces, and the west of Russia. Lowest, 29·9 ins. and less in three areas lying respectively over Portugal, northern Africa, and Greece. No material change later beyond a reduction in height of the high pressure area.

Tuesday, 20th September, 1904.

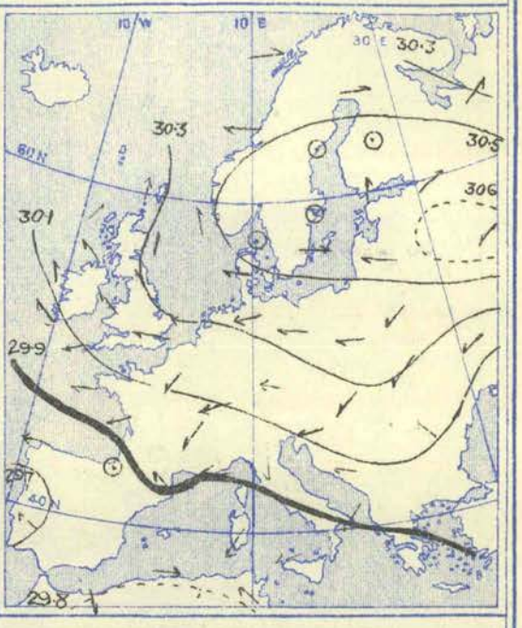
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and dry over our Islands and the Continent generally, but dull at some of the southern European stations, with rain at Malta, Alicante, and over Algeria. Rain later over Italy, a few of the southern French stations, and in some parts of northern Africa—the largest amounts measured being 1·73 ins. at Leghorn, 1·18 ins. at Marseilles, and 0·63 in. at Tunis.

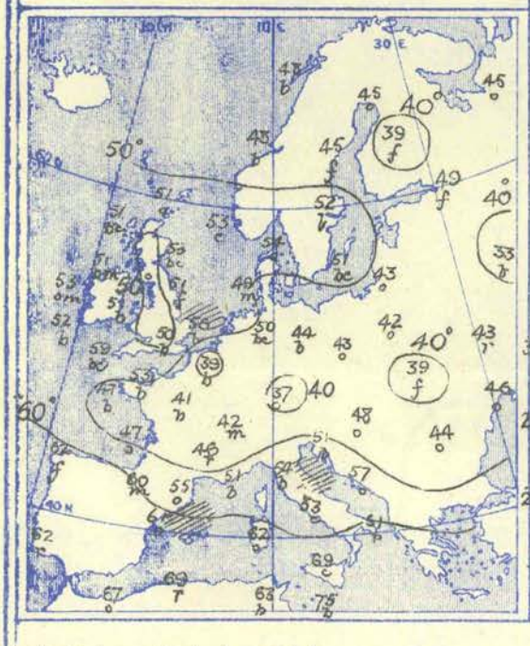
Temperature changed rather irregularly, but fallen in most places. Morning readings highest, 72° at Bilbao, 69° at Algiers and Malta, 68° at Barcelona, and above 60° at many southern stations. Lowest, 31° at Moscow, 33° at Warsaw, 37° at Belfort, Munich, and Breslau. Rising during day to 69° at Nairn and to 67° at Valencia and Manchester, exceeding 70° at many of the southern European stations, reaching 77° at Malta, 79° at Nemours, Oran, and Algiers, and touching 84° at Tunis.

Wind still showing a complete anticyclonic circulation, moderate to light in force, but Easterly to South-Easterly current over our southern districts, and the more western and southern parts of the Continent, blowing freshly or strongly in places. No great change later.

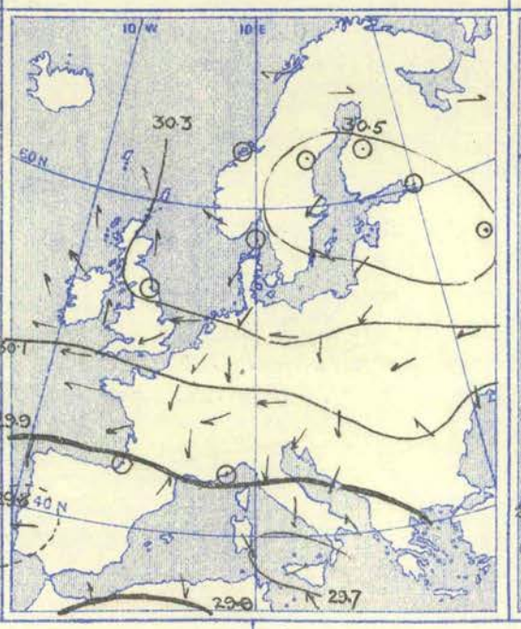
Barometer showing very little change. Highest, 30·6 ins. in the central portion of an anticyclone over western Russia. Lowest, 29·6 ins. and less in a disturbance of moderate depth off the Portuguese coast, and 30·0 ins. and less over the Black Sea. Very little change later beyond a slight northerly movement of the depression off Portugal.

Wednesday, 21st September, 1904.

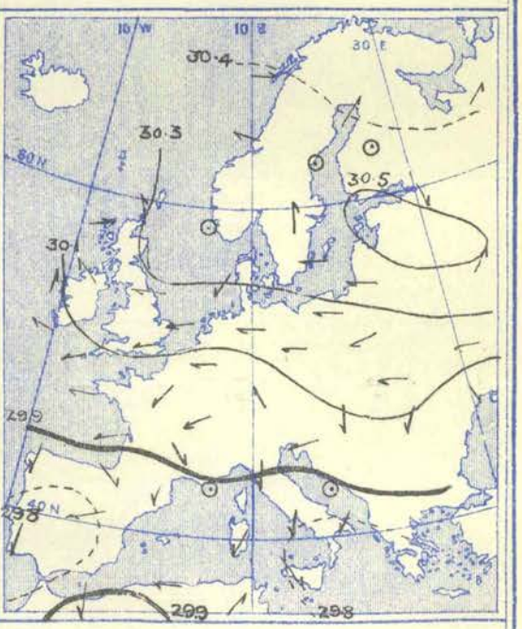
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning cloudy or dull at many stations over southern and south-eastern Europe, with rain at Lisbon, Kiev, Brindisi, Malta, and Lyons, as well as at Algiers, fine and dry elsewhere, with fog at Shields, and also over the Baltic Provinces. Rain later over the Riviera—as much as 0·83 in. measured at Cette—but remaining dry over these Islands and on the Continent generally.

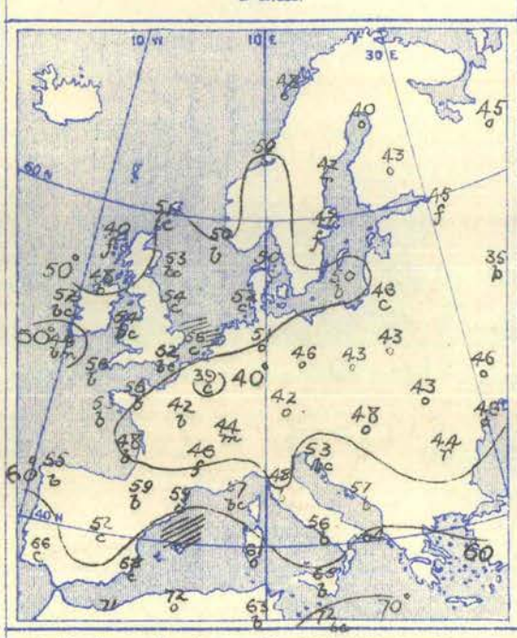
Temperature fallen in most places. Morning readings highest, 75° at Malta, 69° at Algiers and Palermo, and above 60° at many southern stations. Lowest, 33° at Moscow, 37° at Munich, 39° at Kuopio, Brussels, and Lemberg, and only slightly above 40° over central Europe and the inland parts of Ireland and Scotland. Rising during day to 86° at Malta, 79° at Nemours and Oran, and to above 70° in many southern localities. Highest maxima in our Islands, 66° at Leith, 65° at Valencia, 63° at Parsonstown.

Wind maintaining its anticyclonic circulation, of little force, as a rule, but blowing freshly over the south-east of England, and at a few stations in France, Germany, and southern Europe. No change of importance later.

Barometer rising a little over these Islands, falling slowly on the Continent. Highest, 30·5 ins. and upwards in the centre of an anticyclone covering the Baltic Provinces, the greater part of Sweden, and Little Russia. Lowest, 29·7 ins. and less in a well-marked disturbance over Sicily, and 29·8 ins. and less in a shallow depression over Portugal. Anticyclone slowly decreasing in height later, and Mediterranean disturbance travelling away to the eastwards. No material change elsewhere.

Thursday, 22nd September, 1904.

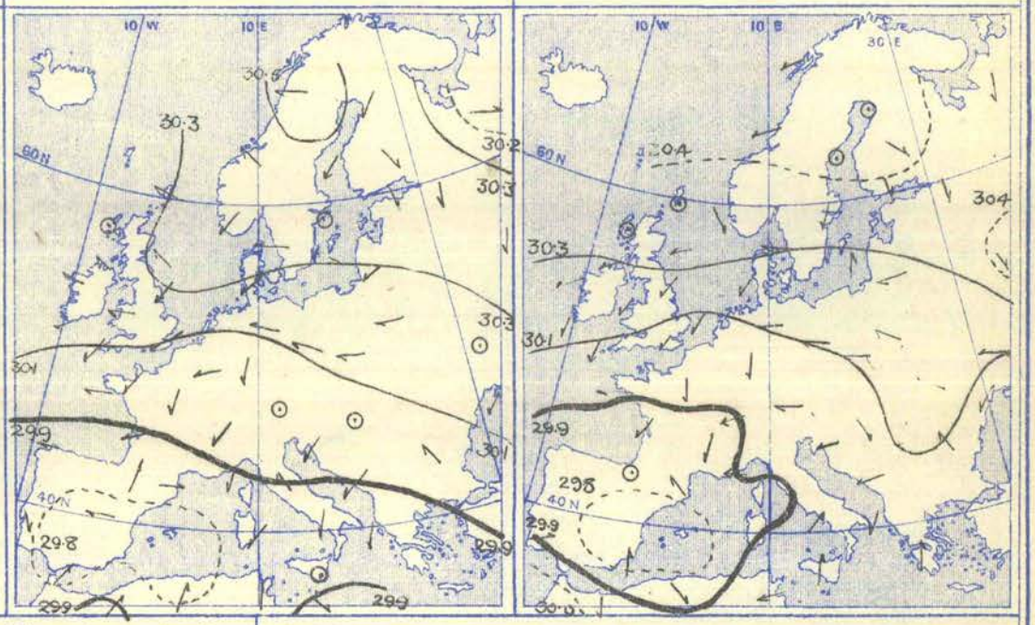
Temperature and Weather. 8 a.m.



Weather in morning fine over the United Kingdom, France, and the greater part of southern Europe. Cloudy or dull in most of the northern, eastern, and central countries, with fog over the Gulf of Finland and the northern part of the Baltic, and with rain at Hernösand. Rain falling later over England and the neighbouring parts of the Continent, as well as at many isolated places in southern and eastern Europe—amount as large as 2·1 ins. at Odessa. Thunderstorm experienced at Rome, and sandstorm at Laghouat.

Temperature risen generally, but fallen in Ireland and the west of Scotland, as well as at most of the Scandinavian stations. Morning readings highest, 72° at Algiers and Malta, 71° at San Fernando and Nemours, and 68° at Alicante; above 60° at most of the Mediterranean and Spanish coast stations. Lowest, (1) 35° at Moscow and 40° at Haparanda, (2) 39° at Brussels and 42° at Paris and Limoges, (3) 40° at Stornoway and 41° at Nairn. Daily maxima below 60° in the eastern and central parts of Great Britain, and very little above that level in other portions of the United Kingdom. Thermometer exceeding 65° in the west of France, and exceeding 70° over the Spanish Peninsula and southern Italy.

Barometer and Wind. 8 a.m. and 6 p.m.

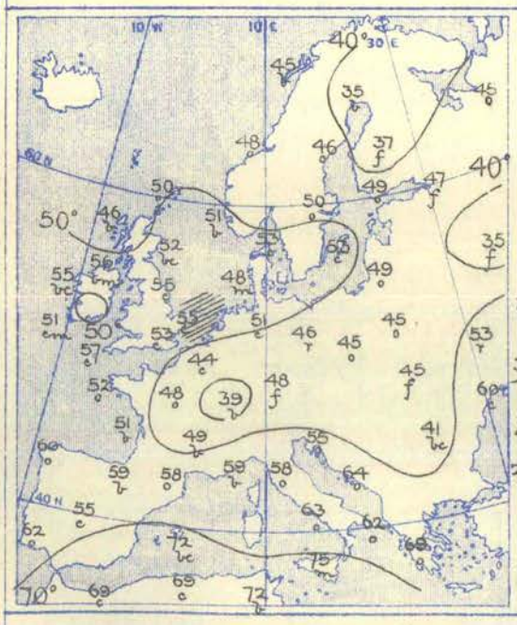


Wind light to fresh from the Eastward (North-East to South-East) over nearly the whole of Europe, but drawing into the Northward over southern Italy and into North-West in adjacent parts of the Mediterranean. Light from the Westward or North-Westward over northern Russia. No important change occurring during day.

Barometer highest, 30·5 ins. and upwards over the northern part of Scandinavia, 30·2 ins. and upwards in an anticyclone embracing the whole of the more northern parts of our Islands and the Continent. Lowest, 29·8 ins. and less in a shallow depression over the Spanish Peninsula and the Balearic Islands. No material change in the general distribution occurring during day.

Friday, 23rd September, 1904.

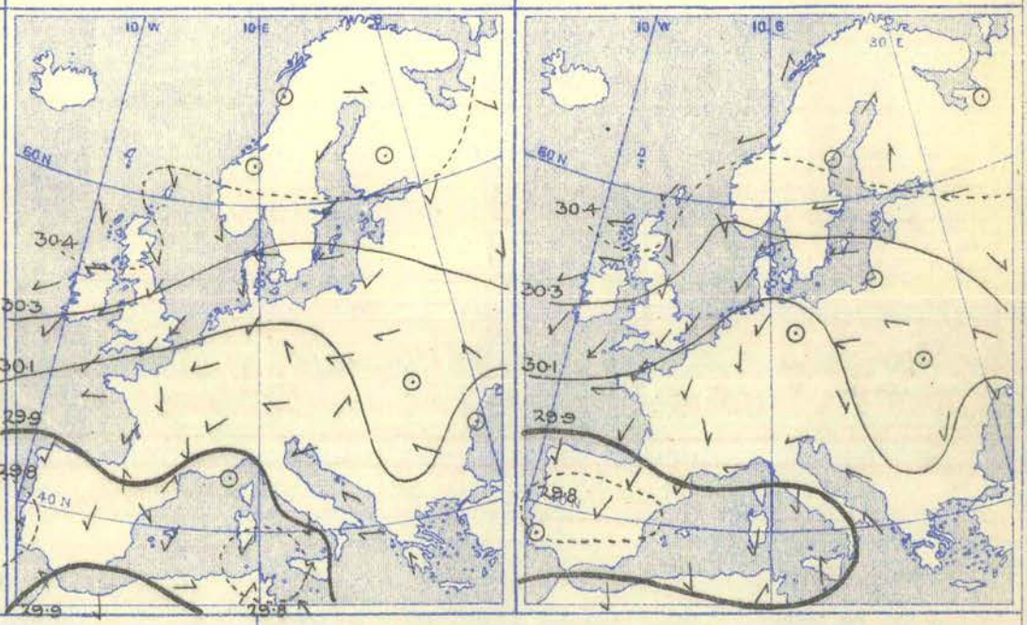
Temperature and Weather. 8 a.m.



Weather in morning very variable over our Islands and on the Continent, clear and bright in some places, cloudy and dull in others, with fog at Wick, Belfort, as well as in many parts of Russia and Austria, rain at Dungeness, Jersey, Limoges, and Berlin. Rain later over the south-east of England, at some stations in Italy, Germany, and the north of France, and a thunderstorm at Madrid, where 0·55 in. of rain was measured.

Temperature changed irregularly over our Islands and at most of the Continental stations. Morning readings highest, 78° at Malta, 75° at Palermo, 72° at Palma and Alicante, and 71° at Patras; above 60° at several Mediterranean stations. Lowest, 35° at Moscow and Haparanda, 36° at Uleaborg, 37° at Kuopio, 39° at Munich, only 40° or rather above over the inland parts of the Continent. Daily maxima, 64° at Portland Bill, and 63° at Brighton and Southport, rising to above 60° over France, Germany, and Austria, exceeding 70° over Spain and Italy, and reaching 86° at Algiers, 90° at Palermo, 97° at Aumale.

Barometer and Wind. 8 a.m. and 6 p.m.

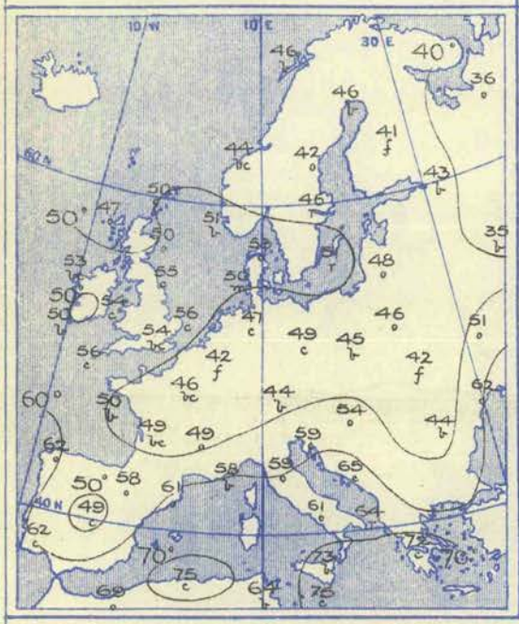


Wind North-Easterly to Easterly over our Islands and the Continent generally, blowing freshly over the southern part of England. A complete cyclonic circulation shown over the Mediterranean, the Southerly wind blowing strongly at Malta and Palermo. No great change later, but wind falling light over the south of England.

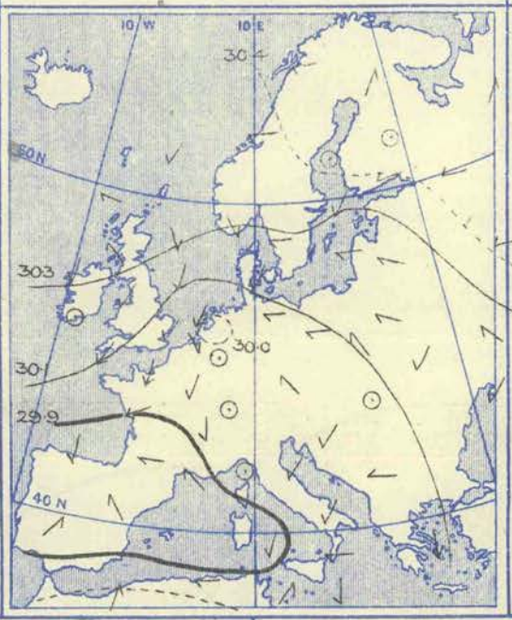
Barometer highest, 30·4 ins. and upwards in an anticyclone stretching from northern Europe to Scandinavia and the north of Scotland. Lowest, 29·8 ins. and less in two shallow disturbances, one off the coast of Portugal, the other over the central part of the Mediterranean. Depression off Portugal moving eastwards over Spain later, that over the Mediterranean dispersing.

Saturday, 24th September, 1904.

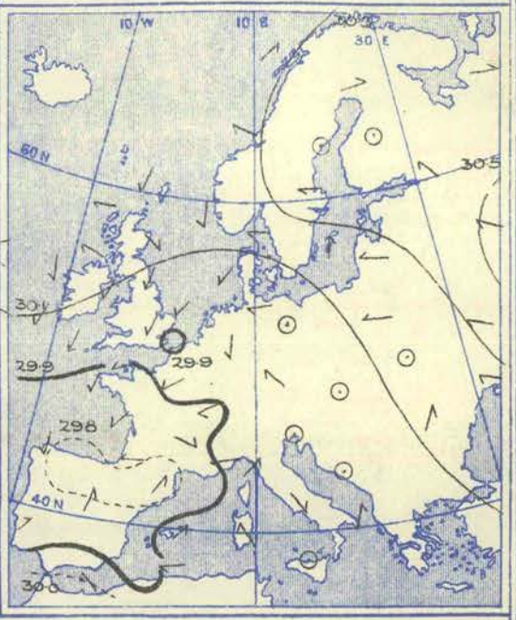
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine on the west coast of Ireland, and at some of the Russian and Scandinavian stations, cloudy or overcast in most other places, with fog at Brussels, and rain at Belfort, Havre, the Helder, Malta, and over the south of Sweden. Rain later over England, and at many of the southern European stations, as much as 0·63 in. measured at Lyons, 0·71 in. at Nice, and 1·85 in. at Leghorn.

Temperature fallen somewhat over western Europe, changed irregularly elsewhere. Morning readings highest, 75° at Algiers and Malta, 73° at Palermo, 72° at Athens. Above 60° at many southern stations. Highest in our Islands, 56° at Spurn Head, Yarmouth, and Scilly. Lowest, 35° at Moscow, 36° at Archangel, and 41° at Kuopio, only slightly exceeding 40° at many of the inland Continental stations, 49° at Madrid. Rising subsequently to 63° at Brighton and 64° at Portland Bill, exceeding 60° over France, Spain, and Italy, reaching 70° or rather above at many Mediterranean stations, touching 82° at Palermo and Sanguinaires, and 86° at Tunis.

Wind North-Easterly to Easterly over our Islands and on the Continent generally. Moderate to light in force, except at Jersey, Yarmouth, and Feerder. No material change over our Islands later, but becoming more variable in direction at the Continental stations.

Barometer falling slowly in most places. Highest, 30·4 ins. and upwards in an anticyclone over the west of Russia and the north of Scandinavia. Lowest, 29·9 ins. and less in a shallow disturbance over the Spanish Peninsula, the south of France, and the adjacent part of the Mediterranean, and 30·0 ins. and less in a small centre lying over Holland and the Norfolk coast. Anticyclone moving later to central Russia. No other change of importance.

IV.—GENERAL NOTES, etc.

Throughout the period the distribution of pressure over nearly the whole of Europe was of an anticyclonic type, the barometer being highest, 30·5 ins. to above 30·6 ins., over Scandinavia and the northern half of Russia. Towards the close of the week the eastern edge of an anticyclone lying on the upper portion of the Atlantic spread to our northern districts, but soon retreated to the ocean. The region of lowest pressure occupied the Spanish Peninsula and the western Mediterranean, associated with the eastward movement of depressions which reached the Portuguese coast from the Atlantic. On the morning of Saturday a very small shallow disturbance was found to have appeared on the lower portion of the North Sea, between the Thames Estuary and Holland. Until the following day it remained stationary, but at the close of the week it was growing and expanding in all directions.

In these circumstances Easterly winds (North-Easterly to South-Easterly) were extensively prevalent over our Islands and the Continent, but at the commencement a Southerly to South-Westerly current was felt in our northern districts and western Scandinavia. As a rule the force was light to moderate, but in the first half of the week it was sometimes fresh or strong, and occasionally blowing a moderate gale at some stations along our southern coasts, in the Vosges and Bavaria, and on the shores of the Mediterranean, the Adriatic, and the Black Sea. Until Thursday the weather was fine, sunny and very dry within the anticyclonic system, but on that day, without any material modification in the disposition of barometric pressure, it became showery in many parts of our Islands and the Continent. Heavy rains were rather frequent in the extreme south of Europe, as much as 2·2 ins. on Thursday at Odessa.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 224.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	45·5	+ 21·7	54	+ 26
STRATHPEFFER SPA	42·4	+ 16·1	50	+ 19
CRATHES	39·0	—	46	—
EDINBURGH	30·9	+ 8·1	36	+ 10
COCKLE PARK	40·2	—	47	—
NEWCASTLE-on-TYNE	27·6	—	33	—
YORK	40·7	+ 14·5	48	+ 17
SKEGNESS	47·0	—	55	—
CROMER	49·8	—	59	—
LOWESTOFT	49·4	—	58	—
DUNMOW	50·0	—	59	—
SHEFFIELD	31·6	—	37	—
WORKSOP	39·6	+ 13·8	47	+ 16
THURCASTON	47·4	+ 19·8	56	+ 23
MARGATE	50·6	+ 17·8	60	+ 21
BROADSTAIRS	53·3	—	63	—
RAMSGATE	52·0	—	61	—
EASTBOURNE	56·9	+ 19·5	67	+ 23
BRIGHTON	57·0	+ 20·2	67	+ 24
WORTHING	58·4	—	69	—
BOGNOR	†	—	†	—
WESTBOURNE	57·2†	+ 21·2	67†	+ 25
VENTNOR HOSPITAL	54·5	+ 16·0	64	+ 19
BOURNEMOUTH	58·7	—	69	—
MARLBOROUGH	48·7	+ 19·7	57	+ 23
SOUTHPORT	42·8	—	50	—
RHYL	45·7	—	54	—
ABERDOVEY	55·0†	—	65†	—
TENBY	47·0	+ 13·3	55	+ 16
TORQUAY	56·2	+ 21·0	66	+ 25
NEWQUAY	54·4	+ 20·1	64	+ 24
GUERNSEY	61·4†	+ 23·0	72†	+ 27

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 20, page 120	Newcastle-on-Tyne	—	—	—	—	—	—	—	—	—	—	—	51·3	—	45	—
No. 21, page 122	Hillington	—	—	—	46·9	55·0	+ 2·6	91	—	—	—	—	—	—	—	—
" "	Cambridge	—	—	—	—	—	—	—	—	—	—	—	14·1	- 32·1	13	- 29
" "	Cheadle	—	—	59·5	48·4	53·6	+ 2·8	81	—	—	—	—	—	—	—	—
" "	Shaftesbury	—	—	—	48·4	53·9	+ 1·8	83	—	—	—	—	—	—	—	—
" "	Stonyhurst	—	—	—	—	—	—	—	—	—	0·97	+ 0·33	—	—	—	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 39. THIRTY-NINTH WEEK, ENDING SATURDAY, OCTOBER 1ST, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS (See p. 230.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	66	34	57·0	44·8	50·7	2 above	61	+11	0	− 5	1806	+ 38	477	− 84
	1. SCOTLAND, EAST	65	32	57·6	42·6	49·7	0 (average)	54	− 2	0	− 5	1962	−140	585	− 16
	2. ENGLAND, N.E.	68	35	59·8	45·5	52·3	0 (average)	72	+ 9	0	− 2	2403	+117	431	− 62
	3. ENGLAND, EAST	66	35	61·5	43·4	52·0	2 below	70	− 3	0	− 3	2684	+ 35	404	−137
	4. MIDLAND COUNTIES	67	33	60·6	41·9	50·8	1 below	62	− 4	0	− 4	2474	−134	474	− 81
	5. ENGLAND, SOUTH	68	32	62·2	44·8	53·1	2 below	78	− 7	0	− 2	2739	−145	345	− 55
Principal Grazing Districts.	6. SCOTLAND, WEST	64	35	58·2	44·0	50·8	0 (average)	62	− 1	0	− 3	2153	− 67	375	− 47
	7. ENGLAND, N.W.	67	33	59·8	45·6	52·4	1 below	73	+ 3	0	− 2	2360	− 77	386	− 16
	8. ENGLAND, S.W.	68	37	61·2	45·7	53·1	1 below	78	+ 2	0	− 1	2682	− 6	252	− 55
	9. IRELAND, NORTH	63	37	57·8	45·5	51·4	0 (average)	66	+ 4	0	− 2	2184	−166	337	− 23
	10. IRELAND SOUTH	69	36	60·4	44·8	52·2	1 below	71	+ 1	0	− 2	2565	− 95	232	− 27
	— CHANNEL ISLANDS	67	43	62·5	50·9	56·4	1 below	101	+ 4	0	0	3070	− 9	80	− 41

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 230.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	18	7 more	179	+14	37·9	+ 3·9	23	+ 1	28	+ 2	1049	+ 59	28	+ 2
	1. SCOTLAND, EAST	4	6	1 less	154	+12	21·2	− 1·1	28	+ 4	35	+ 4	1072	− 64	29	− 2
	2. ENGLAND, N.E.	3	5	1 less	127	− 3	16·6	− 1·3	33	0	41	0	1232	− 30	34	− 1
	3. ENGLAND, EAST	3	4	2 less	123	− 8	15·5	− 1·8	38	+ 6	46	+ 7	1436	+ 34	40	+ 1
	4. MIDLAND COUNTIES	2	5	1 less	133	+ 8	19·5	− 0·4	27	+ 3	33	+ 4	1217	+ 44	34	+ 1
	5. ENGLAND, SOUTH	3	3	4 less	135	+13	19·7	+ 0·2	34	+ 1	42	+ 1	1423	+ 43	40	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	3	13	2 more	153	+ 6	36·9	+ 2·2	30	+ 3	36	+ 4	1155	− 41	32	− 1
	7. ENGLAND, N.W.	3	7	2 less	148	+10	23·2	− 1·0	31	+ 6	38	+ 7	1255	+101	35	+ 3
	8. ENGLAND, S.W.	3	7	2 less	148	+10	28·3	+ 2·1	34	+ 4	42	+ 4	1356	− 69	38	− 2
	9. IRELAND, NORTH	4	7	1 less	186	+18	29·5	+ 3·7	29	+ 6	36	+ 7	1085	− 5	30	0
	10. IRELAND, SOUTH	4	5	3 less	166	+16	31·3	+ 2·9	26	− 3	32	− 3	1183	− 56	33	− 2
	— CHANNEL ISLANDS	4	6	2 less	167	+26	25·7	+ 4·0	45	+ 9	54	+11	1589	− 54	45	− 2

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather. Over the Kingdom generally the weather was of the autumnal type; fine and dry, with a good deal of sunshine. Local thunderstorms were, however, experienced on Sunday on the coasts of Norfolk and Kent, and towards the end of the week rain became general. In the north of Scotland and the extreme western parts of the Kingdom the conditions were unsettled throughout, and rain fell frequently.

Temperature was 1° or 2° below the mean in most districts, but just equal to it in Scotland E. and W., England N.E., and Ireland N., and 2° above it in Scotland N. The highest of the maxima occurred either on the 27th or 28th, and ranged from 69° in Ireland S. and 68° or 67° in most English localities, to 63° in Ireland N. The lowest of the minima were registered on variable dates in Ireland and Scotland, but on September 30th in England. In Scotland E. and England S. the thermometer fell to 32°, but, as a whole, the readings were some degrees higher, and in the Channel Islands the lowest temperature recorded was only 43°.

Rainfall was much in excess of the mean in Scotland N. and slightly so in Scotland W., but less in all other districts. In the N.W. of Scotland some very heavy rains occurred; at Laudale 2·15 ins. was measured on the 30th. Over England there was very little rain until Friday, when some places had heavy falls; at Hillington and Arlington the amount on this day was more than an inch.

Bright Sunshine exceeded the mean except in Ireland S. and England N.E. The percentage of the possible duration ranged from 46 in England E. and 42 in England S. and S.W., to 33 in the Midland Counties, 32 in Ireland S., and to 28 in Scotland N.

Barometer and Wind. At the commencement of the week a depression moved north-north-westwards from our south-eastern coasts beyond the north of Scotland, but after Monday all the southern and eastern parts of the Kingdom were under the direct influence of the Continental anticyclone, while the western and north-western districts were affected by depressions over the Atlantic. One of the latter systems spread over the entire Kingdom towards the end of the period, and caused fresh to strong Southerly and South-Westerly winds in the west and north, and freshening winds elsewhere. The heavy rain over England was due to a secondary of this system, which moved eastwards directly across that country.

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II.—DATA from which the SUMMARY on page 229 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head $	57	42	54·9	46·1	50·3	+ 1·8	58	0	5	1·30	+ 0·42	*	*	*	*
	Stornoway	61	43	56·9	45·6	51·0	+ 2·1	63	0	7	2·01	+ 0·95	29·3	+ 6·5	36	+ 8
	Wick	59	42	55·9	46·4	50·9	+ 1·4	62	0	6	1·03	+ 0·37	*	*	*	*
	Lairg $	66	37	60·7	42·0	50·9	+ 2·9	62	0	6	1·29	+ 0·52	*	*	*	*
	Glencarron $	64	41	56·4	43·6	49·7	+ 1·1	54	0	6	3·37	+ 1·49	*	*	*	*
	Fort Augustus $	64	34	57·7	43·6	50·3	+ 0·6	58	0	6	1·51	+ 0·57	16·5	- 0·1	20	0
	Fort William	62	40	56·8	46·6	51·5	+ 0·5	67	0	7	2·38	+ 0·67	14·6	- 5·7	18	- 7
1. SCOTLAND, E.	Nairn	65	35	58·7	42·1	50·0	- 0·1	56	0	4	0·45	- 0·12	*	*	*	*
	Aberdeen	60	40	57·9	45·0	51·1	+ 0·6	64	0	4	0·70	+ 0·03	29·4	+ 3·2	36	+ 4
	Braemar $	59	32	53·9	40·2	46·7	0·0	40	5	4	0·61	- 0·20	*	*	*	*
	Ochtertyre $	65	37	58·3	40·9	49·2	- 0·9	55	3	5	0·69	- 0·16	*	*	*	*
	Leith	64	41	58·9	44·7	51·5	- 0·4	67	0	3	0·86	+ 0·39	*	*	*	*
	Marchmont $	64	39	57·7	42·9	49·9	+ 0·6	55	0	3	0·26	- 0·48	32·4	+ 9·0	40	+ 11
2. ENGLAND, N.E.	Alnwick Castle	62	35	58·1	42·8	50·1	- 0·5	57	0	2	0·26	- 0·41	*	*	*	*
	Durham	63	37	57·9	43·5	50·4	- 0·7	59	0	3	0·27	- 0·30	30·8	+ 6·3	38	+ 8
	Shields	63	42	58·3	45·1	51·4	0·0	66	0	2	0·21	- 0·33	*	*	*	*
	Scarborough $	65	45	61·1	46·6	53·5	+ 1·2	81	0	2	0·48	- 0·16	37·2	—	46	—
	Spurn Head	63	47	60·1	49·9	54·8	+ 1·3	90	0	3	0·59	+ 0·13	*	*	*	*
	Lincoln	66	41	61·3	44·3	52·4	- 0·5	73	0	3	0·75	+ 0·22	*	*	*	*
	Fulbeck (Lincolnshire)	68	42	62·1	46·0	53·7	+ 1·6	82	0	3	0·57	+ 0·06	34·4	—	43	—
3. ENGLAND, E.	Hillington $	66	37	62·7	41·3	51·5	- 1·4	69	2	3	1·26	+ 0·63	40·6	+ 13·0	50	+ 16
	Yarmouth	62	40	59·9	47·4	53·4	- 0·4	80	0	3	0·39	- 0·25	*	*	*	*
	Geldeston	65	35	62·7	41·5	51·6	- 2·2	69	1	3	0·47	- 0·10	37·8	+ 5·8	47	+ 7
	Cambridge	65	37	61·8	40·3	50·5	- 3·1	67	5	2	0·46	- 0·04	31·8	+ 1·6	39	+ 2
	Felixstowe	63	38	61·0	45·0	52·6	- 0·7	74	0	2	0·08	—	38·2	—	47	—
	Clacton-on-Sea	64	38	60·9	45·9	53·0	- 1·2	77	0	3	0·10	—	42·0†	—	51†	—
	Rothamsted	64	35	60·4	40·7	50·1	- 2·1	62	4	2	0·48	- 0·16	32·0	+ 2·2	39	+ 3
	Shoeburyness	65	40	62·3	44·7	53·1	- 2·1	78	0	2	0·14	- 0·35	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	62	40	58·0	44·7	51·0	+ 0·1	63	0	3	0·40	- 0·30	27·2	—	34	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	65	35	61·3	41·4	50·9	- 1·8	65	2	4	0·89	+ 0·32	24·8	—	31	—
	Colly Weston (Stamford)	65	39	61·1	43·1	51·7	- 1·2	68	0	3	0·63	+ 0·06	*	*	*	*
	Cheadle $	65	40	59·9	43·0	51·0	0·0	63	0	3	0·69	- 0·05	*	*	*	*
	Birmingham (Edgbaston)	66	40	59·9	44·1	51·6	- 0·6	67	0	1	0·61	- 0·01	20·1	—	25	—
	Shrewsbury	66	33	61·1	40·3	50·2	- 2·4	65	5	1	0·31	—	*	*	*	*
	Hereford $	66	37	61·2	41·3	50·8	- 1·8	65	2	1	0·27	- 0·35	*	*	*	*
	Cirencester	65	34	60·7	39·6	49·7	- 2·2	64	7	2	0·59	- 0·08	35·5	+ 7·2	43	+ 9
	Oxford	67	35	62·0	39·9	50·4	- 2·7	68	6	4	0·34	- 0·26	31·4	+ 1·9	38	+ 2
5. ENGLAND, S.	London	67	39	63·3	44·0	53·2	- 1·4	78	0	2	0·12	- 0·43	19·4‡	- 5·4‡	24‡	- 7‡
	Wisley (Surrey)	66	35	62·3	39·8	50·5	- 5·7	69	6	3	0·20	—	24·9	—	30	—
	Swarraton (Alresford) $	66	32	60·8	39·6	49·7	- 2·4	64	7	2	0·52	- 0·20	*	*	*	*
	Tunbridge Wells $	66	38	62·7	43·3	52·5	- 2·8	74	0	3	0·51	—	39·9	—	49	—
	Dungeness	64	37	62·4	44·7	53·1	- 2·4	78	0	3	0·20	- 0·45	45·4	—	55	—
	Hastings (St. Leonards)	66	46	62·4	49·2	55·5	+ 0·1	95	0	2	0·21	- 0·51	41·7	+ 6·9	51	+ 9
	Southampton	68	40	63·7	44·2	53·5	- 1·4	81	0	1	0·48	- 0·22	33·3	+ 0·9	41	+ 1
	Portland Bill	65	47	61·7	50·9	56·0	+ 0·9	98	0	5	0·52	—	*	*	*	*
	Shaftesbury $	65	45	60·1	47·5	53·5	+ 1·2	81	0	3	0·33	- 0·48	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	61	45	58·0	46·6	52·0	+ 1·0	70	0	6	3·05	+ 1·40	*	*	*	*
	Glasgow	61	40	56·9	44·4	50·4	+ 0·1	59	0	3	0·84	- 0·01	20·8	+ 1·1	26	+ 1
	Cally $	60	35	57·8	40·2	48·6	- 1·8	54	5	2	0·62	- 0·42	*	*	*	*
	Aspatria	64	41	58·8	45·4	51·8	+ 0·2	69	0	3	1·12	—	33·0	—	41	—
	Douglas (Isle of Man)	63	39	59·3	43·6	51·1	- 0·5	64	0	2	0·78	- 0·14	34·8	+ 5·6	43	+ 7
7. ENGLAND, N.W.	Newton Rigg	64	33	58·7	40·8	49·3	- 1·0	56	3	4	0·40	—	32·4	—	40	—
	Stonyhurst	61	42	57·8	46·4	51·8	+ 0·4	69	0	5	0·65	- 0·50	27·4	+ 2·1	34	+ 3
	Blackpool $	65	44	59·5	46·6	52·7	- 0·1	75	0	5	1·32	+ 0·45	33·4	+ 8·5	41	+ 11
	Manchester (Prestwich)	65	43	60·0	44·9	52·1	+ 0·3	71	0	2	0·67	- 0·23	21·7	—	27	—
	Liverpool Obsy. (Bidston)	63	40	58·9	45·7	52·0	- 1·4	70	0	4	0·63	- 0·11	36·5	—	45	—
	Chester (Hawarden Bridge)	66	38	61·4	44·3	52·4	- 1·3	73	0	2	0·46	—	*	*	*	*
	Llandudno $	66	48	61·2	49·4	55·0	+ 0·7	91	0	2	0·30	- 0·46	31·5	+ 6·4	39	+ 8
	Holyhead	62	47	59·0	48·9	53·7	- 0·4	82	0	3	1·07	+ 0·27	*	*	*	*
	Bettws-y-Coed	67	40	62·0	43·3	52·2	- 1·8	71	0	4	0·59	—	29·3	—	36	—
8. ENGLAND, S.W.	Pembroke	60	45	59·3	49·3	54·1	- 0·7	85	0	4	0·66	- 0·17	32·8	+ 2·8	40	+ 3
	Clifton	66	41	61·5	45·4	53·1	- 0·5	78	0	1	0·32	- 0·49	*	*	*	*
	Bath	68	37	63·0	41·1	51·5	- 2·3	70	3	1	0·16	- 0·55	33·0	—	40	—
	Arlington (N. Devon)	66	39	60·9	44·6	52·4	- 0·6	73	0	5	1·73	+ 0·49	*	*	*	*
	Cullompton $	68	38	62·8	43·1	52·5	- 0·9	74	0	1	0·63	- 0·15	27·4	- 1·4	33	- 2
	Falmouth	61	47	59·4	49·2	54·1	- 0·9	85	0	5	0·73	- 0·32	37·6	+ 4·8	46	+ 6
	Plymouth	66	42	61·7	47·5	54·3	- 0·2	86	0	3	0·93	+ 0·11	32·8	+ 1·5	40	+ 2
9. IRELAND, N.	Malin Head	61	42	57·4	46·6	51·7	- 0·8	68	0	4	0·83	+ 0·11	*	*	*	*
	Edenfel (Omagh)	61	42	56·1	45·1	50·3	+ 0·4	58	0	4	0·83	0·00	*	*	*	*
	Blacksod Point	59	43	57·4	47·9	52·4	- 1·0	73	0	5	0·97	- 0·06	*	*	*	*
	Markree Castle	61	37	58·3	42·2	49·9	- 1·0	55	0	4	0·60	- 0·31	24·7	+ 1·7	31	+ 2
	Armagh	63	41	58·7	45·0	51·5	+ 0·6	67	0	3	0·49	- 0·16	34·0	+ 9·5	42	+ 12
	Donaghadee	61	44	58·7	46·4	52·3	+ 0·2	72	0	3	0·72	+ 0·06	*	*	*	*
10. IRELAND, S	Dublin	64	41	60·1	46·1	52·8	- 0·4	76	0	5	0·47	- 0·09	37·5	+ 7·1	46	+ 9
	Birr Castle	62	40	59·4	43·1	50·9	- 0·8	62	0	5	0·54	- 0·12	18·8	- 8·5	23	- 11
	Kilkenny	64	36	60·7	40·6	50·2	- 2·1	63	4	3	0·34	- 0·31	*	*	*	*
	Waterford*	65	38	61·6	43·4	52·1	- 0·9	71	0	2	0·34	- 0·44	*	*	*	*
	Roche's Point	62	44	60·4	46·9	53·3	- 0·9	79	0	5	0·51	- 0·36	*	*	*	*
	Valencia	64	40	59·0	47·6	53·0	- 1·5	77	0	6	1·19	+ 0·09	21·3	- 7·0	26	- 9
	Killarney	69	37	63·6	44·6	53·6	+ 0·4	81	0	3	0·51	- 0·54	*	*	*	*
	Foynes	63	41	58·1	45·8	51·7	- 1·3	68	0	2	0·28	- 0·48	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	52	61·6	52·9	57·0	+ 0·4	105	0	3	0·52	- 0·25	47·4	+ 13·0	58	+ 16
	Jersey	67	43	63·4	48·9	55·8	- 1·2	97	0	5	0·76	- 0·06	41·7	+ 4·5	51	+ 6

Stations Marked M are in connection with the Royal Meteorological Society, and those marked $ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

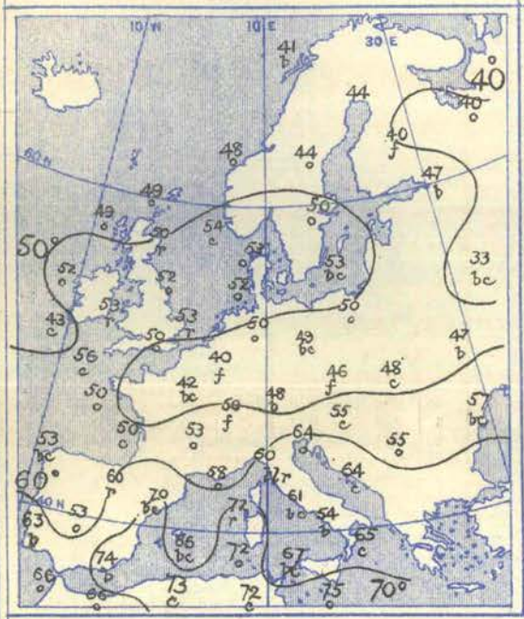
† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 32 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

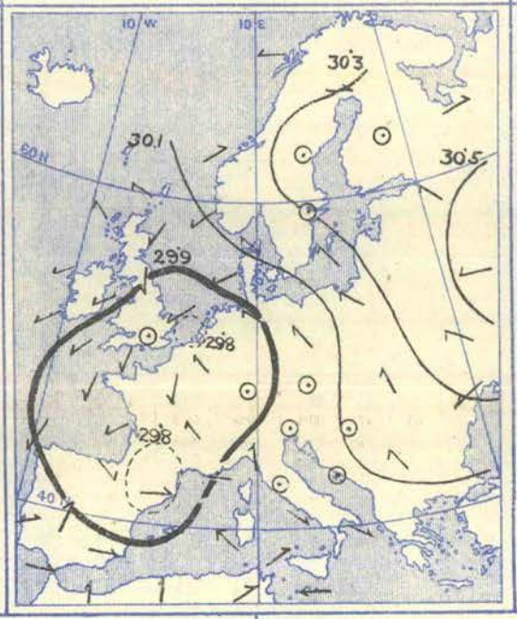
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 25th September, 1904.

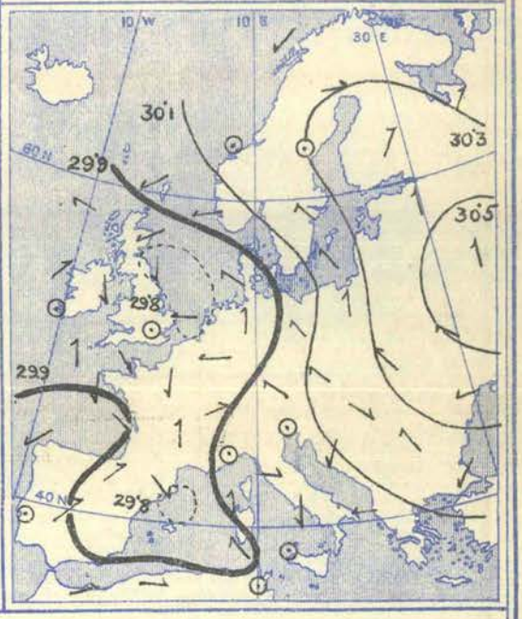
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in places, but cloudy or overcast as a whole. Rain falling in the north of Italy, with a thunderstorm at Florence, Corsica, Hangö, and some parts of Great Britain, and fog prevailing in central Europe. Rain experienced later in most parts of our Islands and in many Continental regions—more than an inch at Gap and Florence, and 0·7 in. at Leith. A thunderstorm occurring at Margate.

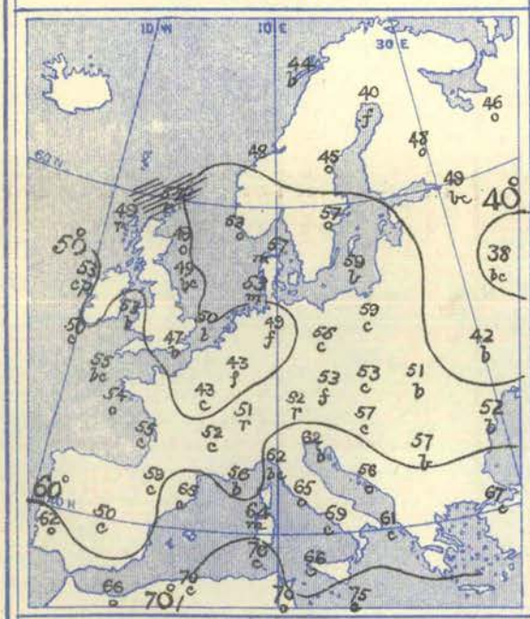
Temperature changed irregularly. Morning readings highest, 75° at Malta, 73° at Algiers, and about 70° at a few other stations in the extreme south. Lowest, (1) 33° at Moscow, (2) 40° at Archangel and Knopio, and 41° at Bodö, (3) 40° at Brussels, 42° at Paris, and 44° at Le Mans, (4) 40° at Parsonstown. Rising later to 60° or a little higher at some of our own stations, and to above 70° in the extreme south of Europe and in Algeria and Tunis. Highest readings, 80° at Palermo, 84° at Algiers, and 90° at Tunis.

Wind at 8 a.m. strong from the Eastward at Sanguinaires and Cagliari, but very light as a whole. A cyclonic circulation prevailing over the western and south-western countries. Scarcely any change later; force decreasing to a moderate breeze in Corsica and Sardinia.

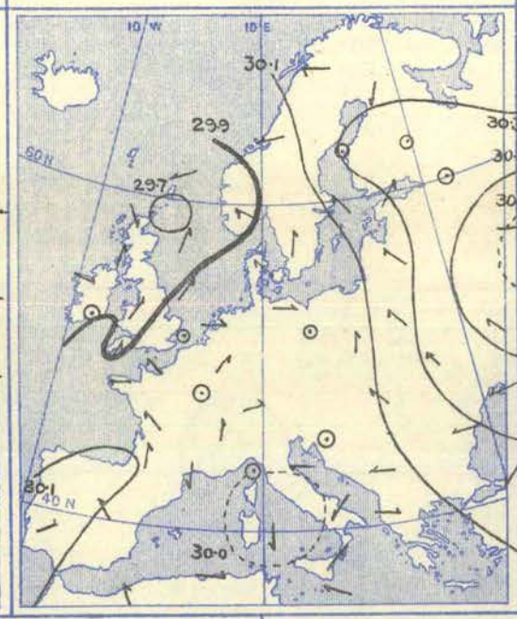
Barometer at 8 a.m. ranging from above 30·5 in a large anticyclone over Russia, to below 29·9 ins. in an extensive depression over the western and south-western parts of our area, including two minima of 29·8 ins. and less—one off our south-east coast, the other near Perpignan. Latter minimum moving southwards during day, and the former northwards. Little change occurring in the general distribution of pressure.

Monday, 26th September, 1904.

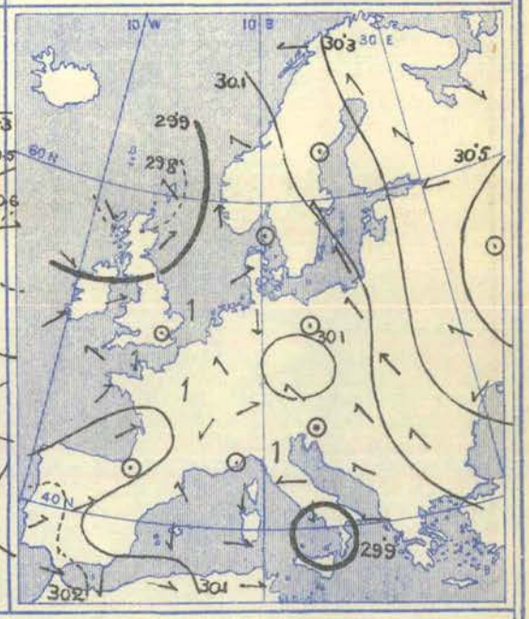
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull generally, but fine and bright in many parts of England and Russia. Rainy in the Hebrides and Shetlands, and showery at Blacksod Point. Foggy at Nottingham, Brussels, and Prague, and rain falling at Frankfurt, Belfort, and Munich. Rain experienced later in Scandinavia and most central and southern regions, and a thunderstorm in central England. Heaviest rain, 0·8 in. at Pesaro and 0·6 in. at Berlin and Hernösand.

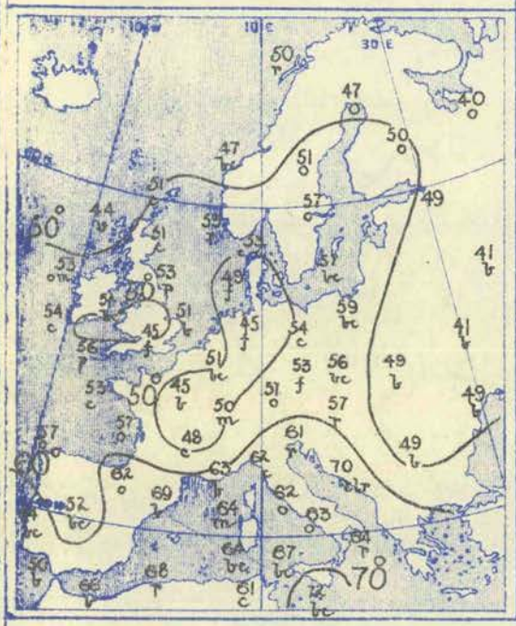
Temperature risen as a whole. Morning readings highest, 75° at Malta, 70° at Cagliari, 69° at Naples, and 65° at Barcelona. Lowest, (1) 37° at Kharkov, 38° at Moscow, (2) 40° at Haparanda, (3) 42° at Le Mans, 43° at Paris and Brussels, (4) 43° at Nottingham. Rising later to 66° in London and at Paris, to above 70° in the extreme south, and to about 80° in places.

Wind at 8 a.m. cyclonic over our Islands, Germany, and the western half of the Mediterranean; anticyclonic elsewhere. Light or moderate in force generally, but strong from East at Faerder. Latter dying down by evening, but a strong Southerly breeze setting in at Skudesnaes. Little other change generally, but a fresh gale from South-East reported at Lemberg.

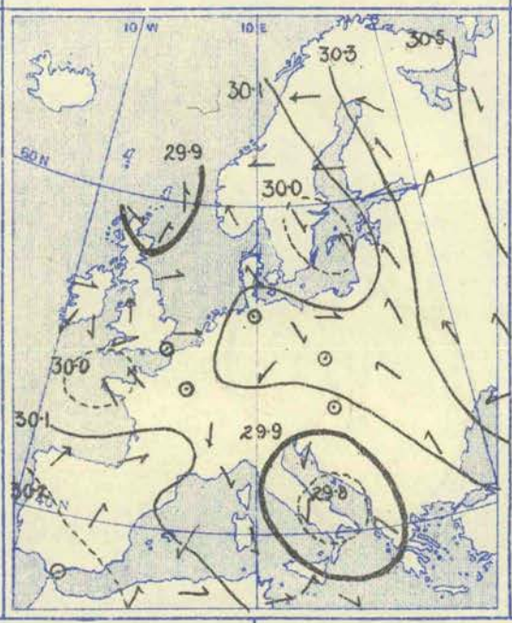
Barometer at 8 a.m. ranging from 30·6 ins. in an anticyclone centred over the south of Russia to 30·0 ins. and less in a shallow depression over Corsica, Sardinia, and their neighbourhood, and to less than 29·7 ins. in another disturbance having its centre over Caithness. Southern depression becoming deeper during day, and that in Scotland travelling away north-westward. Barometer rising over Germany.

Tuesday, 27th September, 1904.

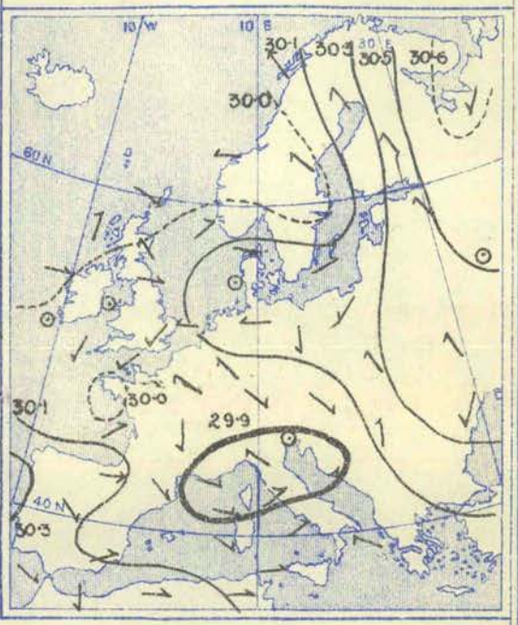
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather at 8 a.m. rainy on the shores of the Adriatic (with a thunderstorm at Lésina), at Buda-Pesth, in the south of Norway, and at Bodö; cloudy or overcast in most other regions, with fog or mist in places. Very fine at some of our own and the French stations, as well as in most parts of Russia. A thunderstorm and 1·14 ins. of rain occurring at Biarritz later, and some heavy rain over Italy, Austria, and Germany. Considerable rain also falling in Scandinavia.

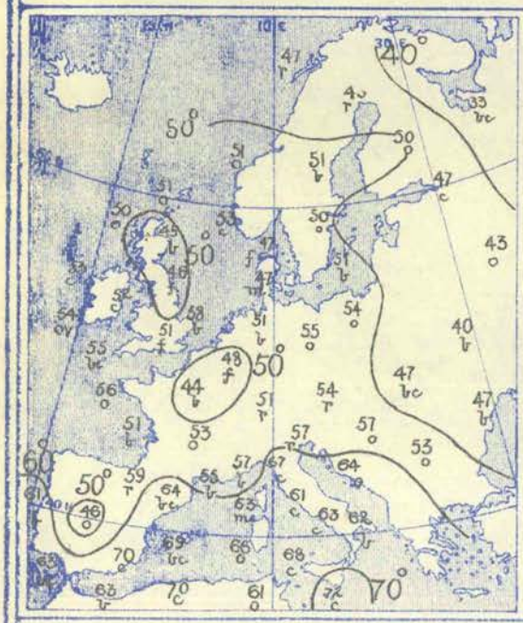
Temperature changing irregularly. Morning readings highest, 72° at Malta, 70° at Palma and Lésina, and 68° at Algiers. Lowest, (1) 37° at Kharkov, 40° at Archangel, and 41° at Moscow, (2) 40° to 42° over central England, (3) 41° at Le Mans and 43° at Limoges. Rising later to 67° in London, to above 70° in the most southern regions, and to above 80° in Greece and at Algiers. Maximum no higher than 55° at Munich.

Wind at 8 a.m. showing several cyclonic or anticyclonic circulations. Not much force generally, but a strong South-Easterly breeze prevailing at Lésina and also at Wisby, and a moderate Easterly gale at Bodö. No general change later.

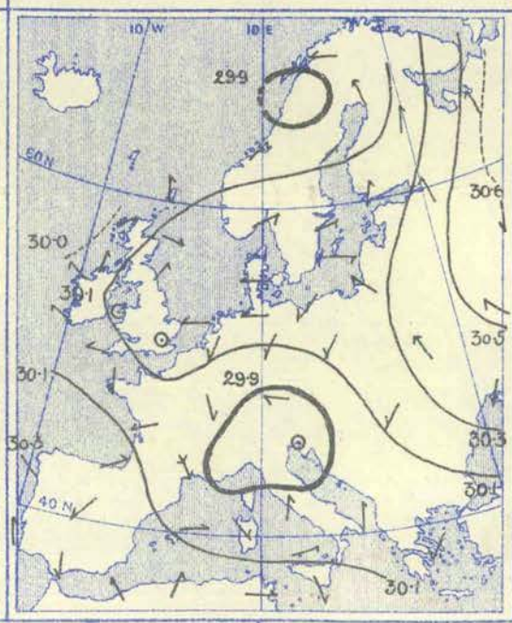
Barometer at 8 a.m. ranging from 30·5 ins. and upwards over Russia, and above 30·2 ins. over Portugal, to 30·0 ins. and less in a depression over Brittany and in another system over the south of Sweden, to less than 29·9 ins. in a disturbance off the north of Scotland, and to below 29·8 ins. in a well-defined depression over Italy. Low pressure systems all moving northwards later except that over Brittany. Italian disturbance becoming less deep and much modified in form.

Wednesday, 28th September, 1904.

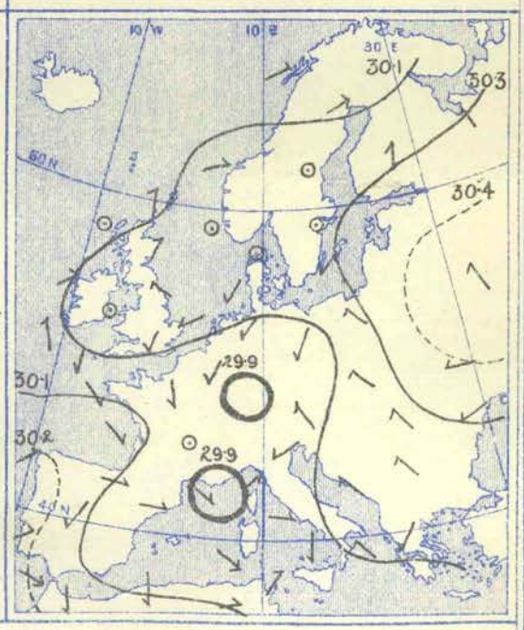
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather at 8 a.m. fine in many parts of Russia, Algeria, France, and our Islands, but foggy at several English stations. Cloudy or overcast over our area as a whole, with rain in the north of Scandinavia, at Biarritz, and in some parts of central Europe. Heavy rain over the central countries, and the east and north-east of France later. Largest amounts, 1·3 ins. at Frankfort and 0·9 in. at Paris. A thunderstorm with 0·7 in. of rain occurring at Algiers.

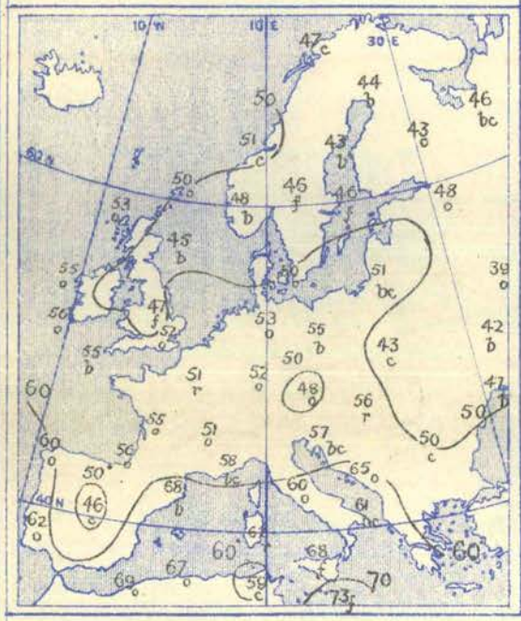
Temperature fallen generally. Morning readings highest, 72° at Malta, 70° at Patras and Algiers, and 67° at Leghorn. Lowest, (1) 33° at Archangel, 39° at Kharkov, and 43° at Moscow, (2) 43° to 46° over central England, (3) 44° at Paris, (4) 46° at Madrid. Rising during day to 68° at Bath, and to above 70° in the far south. Highest readings, 80° at Palermo and 82° at Tunis and Patras.

Wind at 8 a.m. showing a cyclonic circulation around the north of Italy and another around the north of Norway. North-Westerly winds strong to a gale in the south-east of France, but no great force prevailing generally. Light anticyclonic airs blowing over the United Kingdom, Denmark, the Baltic, and Russia. Wind decreasing in force in the south-east of France later, but little other change.

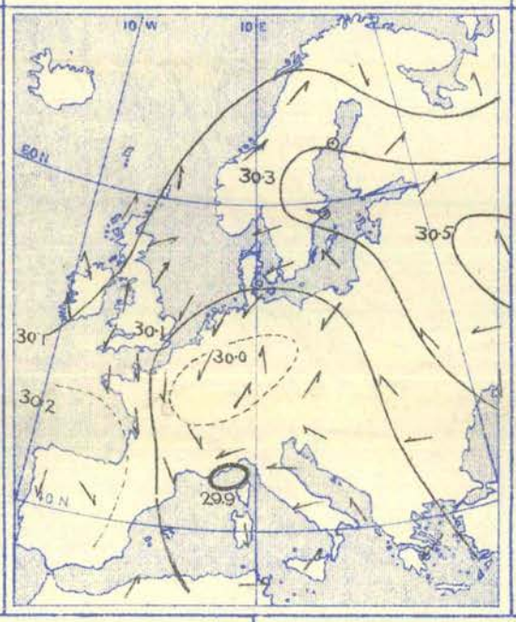
Barometer at 8 a.m. highest, above 30·6 ins. in a large anticyclone extending eastwards from our Islands and having its central part over Russia, and 30·3 ins. in Portugal. Lowest, 29·9 ins. and less (1) in a depression over the north of Italy and its vicinity, and (2) in another system over the north of Norway. Latter travelling away northwards during day, but the former becoming more complex and extending both northwards and southwards.

Thursday, 29th September, 1904.

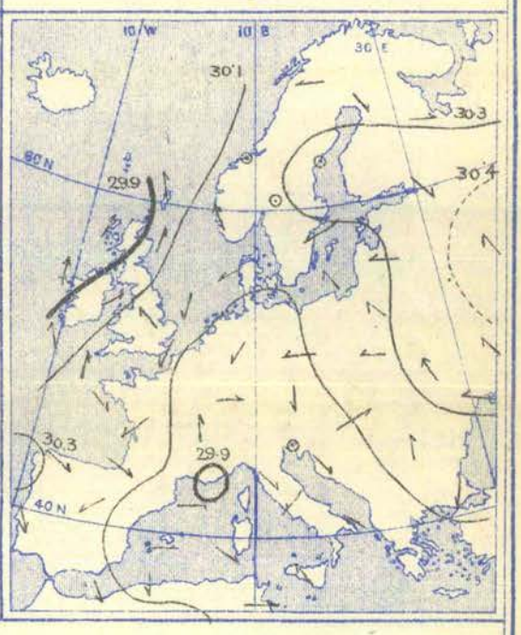
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. very unsettled over the central countries, France, and Italy, with rain in several localities, and thunder at Sanguinaires. Fine and bright in the east and north of Russia, and in various parts of our Islands. Fog prevailing over the centre and north-east of England. Very heavy rain in Italy and on our north-west coasts later, and also at Aix-la-Chapelle. Rain also falling in the south of France and Algeria, with thunder and lightning in places.

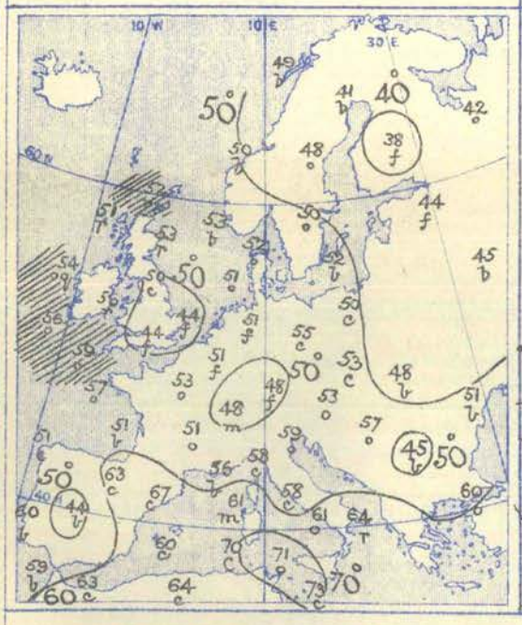
Temperature fallen as a whole. Morning readings ranging from 73° at Malta, 70° at Patras, 68° at Barcelona, and 65° at Pesaro, to below 50° at Madrid and in most northern regions, and to 39° at Moscow. Rising later to 60° on our south coast, in various parts of central Europe and the north of Italy, and to 70° or above in the far south. Highest readings, 79° at Algiers and 80° at Malta.

Wind at 8 a.m. light or moderate and anticyclonic very generally, but cyclonic around the Gulf of Genoa and the south-western regions of Germany. Southerly wind spreading over our Islands during day, and increasing to a gale on the north-west coast of Ireland. Little change elsewhere.

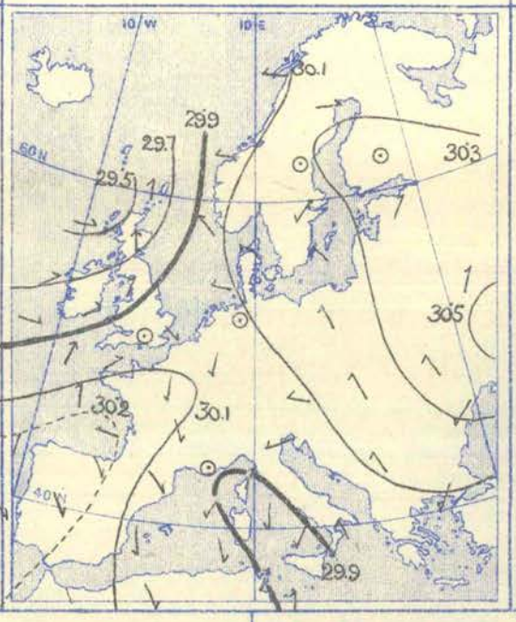
Barometer at 8 a.m. ranging from above 30·5 ins. in a very large anticyclone having its centre near Moscow, to below 30·0 ins. in a depression centred over the Vosges, and to less than 29·9 ins. in another over the Gulf of Genoa. Barometer falling decidedly along our western and northern coasts later, and a large depression approaching from the Atlantic. An anticyclone beginning to extend north-eastwards from the Spanish Peninsula.

Friday, 30th September, 1904.

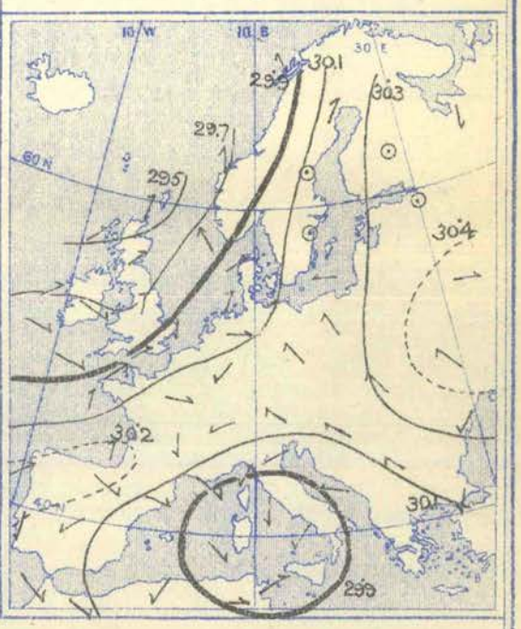
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. dull and rainy over Ireland, Scotland, and Italy. Fine and bright over the greater part of Russia, Spain, and Portugal, and in the extreme north of Scandinavia. Foggy in the centre and south-east of England and also in many Continental localities. Heavy or considerable rain falling later over our Islands, the west of France and Italy, but little or none elsewhere.

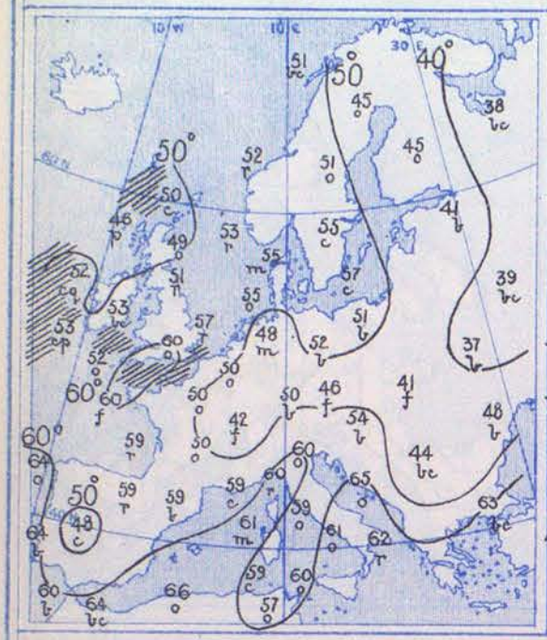
Temperature risen quickly in Ireland, Wales, and Scotland, fallen or changed little elsewhere. Morning readings highest, 73° at Malta, 70° at Cagliari, 67° at Barcelona, and 63° at Biarritz. Lowest, (1) 38° at Kuopio, 41° at Haparanda, (2) 41° at Oxford, 43° at Nottingham, and 44° in London, (3) 44° at Madrid, (4) 45° at Hermannstadt. Maxima below 60° at several of our own stations, and exceeding 70° in the most southern parts of our area only. Highest values, 77° at Algiers, Tunis, and Sfax.

Wind at 8 a.m. strong to a moderate gale from the South-Westward on our western and northern coasts. Light and mainly anticyclonic over the Continent generally, but a cyclonic circulation prevailing over Italy and its neighbourhood. Wind moderating in strength over our Islands later; not much change elsewhere as a whole, but a West-South-Westerly gale setting in at Sfax.

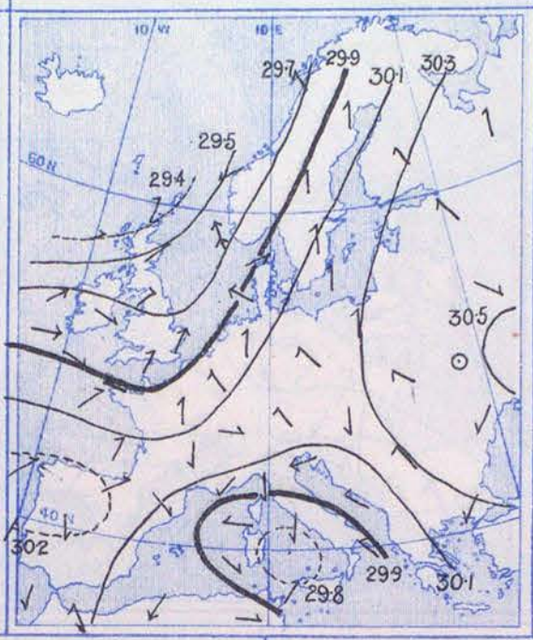
Barometer in morning ranging from about 30·5 ins. in an anticyclone centred over the southern districts of Russia and above 30·2 ins. in another system over Spain and the Bay of Biscay, to below 29·9 ins. in an elongated depression over the central parts of the Mediterranean, and to less than 29·5 ins. in a larger disturbance having its minimum off the north-west of Scotland. Little modification taking place in the general distribution of pressure; a secondary disturbance appearing over the St. George's Channel.

Saturday, 1st October, 1904.

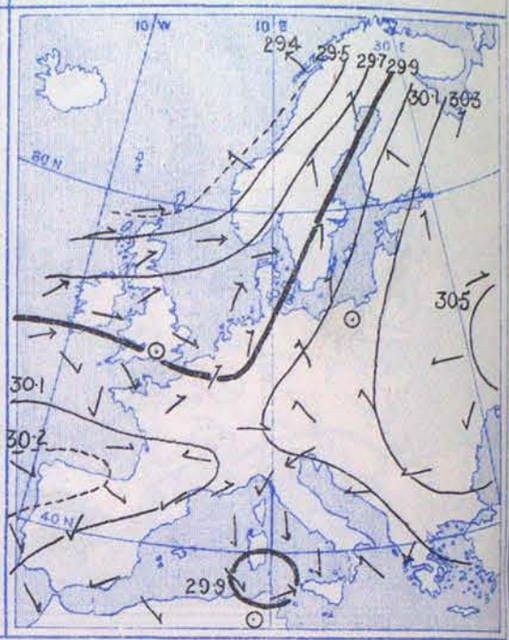
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over Russia, Poland, the greater part of Germany and Portugal, cloudy or overcast elsewhere, with rain in many parts of France, the United Kingdom, Norway, Italy, and also at Aumale. Rain continuing more or less all day in many regions and extending to Sweden and Greece. Largest fall, 0·87 in. at Oxö.

Temperature risen very quickly over central and south-eastern England. Morning readings highest, 66° at Algiers, 65° at Lésina, 64° at Lisbon, and about 60° at several southern stations. Lowest (1) 33° at Kharkov, 38° at Archangel, (2) 42° at Limoges, (3) 44° at Hermanstadt, (4) 48° at Madrid and also at Aumale. Maxima during day above 80° at some Spanish stations, and above 70° in the far south generally, but below 60° at most of our own stations, and also at Paris.

Wind at 8 a.m. showing a moderate to strong cyclonic circulation over Italy and its neighbourhood, and fresh or strong winds between South and West over our Islands and north-western Europe generally. A whole gale from South-South-East prevailing at Skudesnaes. Light anticyclonic airs blowing in Russia and the Spanish Peninsula. Wind veering to the Westward over our Islands later and decreasing somewhat in force. Continuing strong to a gale in the south of Norway.

Barometer at 8 a.m. ranging from above 30·5 ins. in an anticyclone centred over the southern districts of Russia, and above 30·2 ins. in another system over Spain, to less than 29·8 ins. in a depression having its minimum between Palermo and Naples, and to below 29·4 ins. in a larger disturbance centred off the north of Scotland. Latter system moving east-north-eastwards during day, but very little change taking place in the general distribution of pressure.

IV.—GENERAL NOTES, etc.

During the whole of the period pressure was highest in a large anticyclone over Russia, and this system sometimes extended a considerable distance westwards. There was also another high pressure area which apparently stretched from the Azores to the Spanish Peninsula, and extended at times to the Bay of Biscay and France. The low pressure systems were nearly all confined to the Mediterranean and Italy, whence they sometimes expanded or moved northwards to central Europe and the most north-western parts of our area. Towards the close of the week, however, large depressions from the Atlantic spread over the whole of the United Kingdom and the North Sea. The latter brought almost the only strong winds experienced during the week, causing strong breezes between South and West on many of our own coasts and in Norway, and gales in some exposed places. The heaviest and most frequent falls of rain occurred in Italy and the central countries; over the greater portion of our Islands and most parts of eastern and northern Europe the week was mainly fine and the weather of the autumnal type. Temperature changed often, but, as a whole, showed a downward tendency.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 230.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	37·3	+ 14·9	46	+ 18	SHEFFIELD	21·3	—	26	—	WESTBOURNE	33·7†	+ 0·5	41†	+ 1
STRATHPEFFER SPA	16·0	- 8·8	20	- 11	WORKSOP	25·7	+ 1·9	32	+ 2	VENTNOR HOSPITAL	28·8	- 6·6	35	- 8
CRATHES	31·3	—	39	—	THURCASTON	28·1	+ 2·6	35	+ 3	BOURNEMOUTH	34·7	—	42	—
EDINBURGH	30·1	- 1·4	25	- 2	MARGATE	34·6	+ 4·1	42	+ 5	MARLBOROUGH	34·3	+ 7·1	42	+ 9
COCKLE PARK	34·1	—	42	—	BROADSTAIRS	43·1	—	53	—	SOUTHPORT	36·3	—	45	—
NEWCASTLE-on-TYNE	17·5	—	22	—	RAMSGATE	45·2	—	55	—	RHYL	43·6	—	54	—
YORK	17·7	- 6·6	22	- 8	EASTBOURNE	40·2	+ 5·6	49	+ 7	ABERDOVEY	35·5†	—	44†	—
SKEGNESS	43·7	—	54	—	BRIGHTON	42·9	+ 8·5	52	+ 10	TENBY	—	—	—	—
CROMER	44·5	—	55	—	WORTHING	38·9	—	47	—	TORQUAY	20·0	- 2·3	37	- 3
LOWESTOFT	40·2	—	50	—	BOGNOR	40·7†	—	50†	—	NEWQUAY	? 41·6	+ 9·9	? 51	+ 12
DUNMOW	31·8	—	39	—						GUERNSEY	†		†	

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 21, page 122	Llandudno	—	—	59·7	—	53·5	+ 0·6	81	—	—	—	—	—	—	—	—
" " 126	Newcastle-on-Tyne	—	—	—	—	—	—	—	—	—	—	—	9·3	—	8	—
" " "	Skegness	—	—	—	—	—	—	—	—	—	—	—	16·4	—	15	—
No. 22, page 128	Hillington	—	—	—	47·3	54·5	+ 0·7	88	—	—	—	—	—	—	—	—
" " "	Glasgow	—	44	—	47·7	56·0	+ 3·3	98	—	—	—	—	—	—	—	—
No. 23, page 134	Shrewsbury	—	—	64·6	46·9	55·1	- 0·7	92	—	—	—	—	—	—	—	—

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* } No. 40. FORTIETH WEEK, ENDING SATURDAY, OCTOBER 8TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS (See p. 236.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	61	31	52·2	41·1	46·5	1 below	35	− 6	3	− 3	1841	+ 32	480	− 87
	1. SCOTLAND, EAST	62	33	54·4	41·5	47·8	0 (average)	43	− 3	1	− 8	2005	−143	586	− 23
	2. ENGLAND, N.E.	63	33	55·8	42·8	49·1	1 below	50	− 2	0	− 3	2453	+115	431	− 65
	3. ENGLAND, EAST	64	34	56·5	43·4	49·8	2 below	55	− 6	0	− 4	2739	+ 29	404	−141
	4. MIDLAND COUNTIES	64	31	55·8	41·5	48·5	2 below	48	− 7	1	− 5	2522	−141	475	− 86
	5. ENGLAND, SOUTH	66	35	56·6	45·3	50·8	2 below	62	− 8	0	− 3	2801	−153	345	− 58
Principal Grazing Districts.	6. SCOTLAND, WEST	60	32	55·0	43·0	48·9	1 below	48	− 4	0	− 4	2201	− 71	375	− 51
	7. ENGLAND, N.W.	63	30	55·4	43·6	49·3	2 below	51	− 7	0	− 2	2411	− 84	386	− 18
	8. ENGLAND, S.W.	65	39	56·9	47·0	51·8	0 (average)	69	+ 3	0	− 2	2751	− 3	252	− 57
	9. IRELAND, NORTH	62	35	55·0	43·7	49·2	1 below	50	− 2	0	− 3	2234	−168	337	− 26
	10. IRELAND SOUTH	62	31	56·9	43·8	50·2	1 below	57	− 4	0	− 3	2622	− 99	232	− 30
	— CHANNEL ISLANDS	66	46	59·4	52·4	55·8	0 (average)	97	+10	0	0	3167	+ 1	80	− 41

Rainfall.

	DISTRICTS. (See p. 236.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	19	8 more	186	+17	39·8	+ 4·6
	1. SCOTLAND, EAST	4	7	1 less	158	+12	21·9	− 1·1
	2. ENGLAND, N.E.	3	3	3 less	130	− 4	16·9	− 1·6
	3. ENGLAND, EAST	4	4	2 less	127	− 8	15·9	− 2·0
	4. MIDLAND COUNTIES	3	2	5 less	136	+ 7	19·7	− 0·8
	5. ENGLAND, SOUTH	5	14	6 more	140	+14	21·1	+ 0·8
Principal Grazing Districts.	6. SCOTLAND, WEST	5	12	1 more	158	+ 6	38·1	+ 2·3
	7. ENGLAND, N.W.	4	7	3 less	152	+10	23·9	− 1·2
	8. ENGLAND, S.W.	4	10	1 more	152	+ 9	29·3	+ 2·2
	9. IRELAND, NORTH	6	5	3 less	192	+20	30·0	+ 3·4
	10. IRELAND, SOUTH	4	3	5 less	170	+16	31·6	+ 2·3
	— CHANNEL ISLANDS	6	25	16 more	173	+28	28·2	+ 5·6

Bright Sunshine.

	DISTRICTS. (See p. 236.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	24	+ 4	31	+ 6	1073	+ 63	29	+ 1
	1. SCOTLAND, EAST	33	+11	42	+14	1105	− 53	30	− 1
	2. ENGLAND, N.E.	32	+10	41	+12	1264	− 20	34	− 1
	3. ENGLAND, EAST	26	− 3	33	− 4	1462	+ 31	40	+ 1
	4. MIDLAND COUNTIES	21	− 4	27	− 5	1238	+ 40	34	+ 1
	5. ENGLAND, SOUTH	19	−10	24	−13	1442	+ 33	39	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	31	+ 8	40	+11	1186	− 33	32	− 1
	7. ENGLAND, N.W.	26	+ 5	33	+ 6	1281	+106	35	+ 3
	8. ENGLAND, S.W.	21	− 8	26	−10	1377	− 77	38	− 2
	9. IRELAND, NORTH	26	+ 4	34	+ 5	1111	− 1	30	0
	10. IRELAND, SOUTH	29	+ 2	37	+ 3	1212	− 53	33	− 1
	— CHANNEL ISLANDS	23	− 9	29	−11	1610*	− 65	44	− 2

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was rough and unsettled in all districts. The rain, however, was not generally heavy except in the most northern and southern portions of the Kingdom. Towards the end of the period hail showers were experienced in the west and north.

Temperature was 1° or 2° below the mean as a whole, but just equal to it in Scotland E., England S.W., and the Channel Islands. The highest of the maxima were recorded about the middle of the week, and ranged from 66° in England S. and the Channel Islands to 61° and 60° in Scotland N. and W. The lowest of the minima, which were registered on rather variable dates, but mostly either on the 3rd, 7th, or 8th, ranged from 30° in England N.W. and 31° in Scotland N., the Midland Counties, and Ireland S., to 39° in England S.W., and to 46° in the Channel Islands.

Rainfall was much more than the mean in Scotland N., England S., and the Channel Islands, and slightly more in England S.W. and Scotland W. Elsewhere there was a deficit. The large amount in the Channel Islands was chiefly due to an unusually heavy fall which occurred at Jersey on October 2nd, when 2·12 ins. were recorded. At Guernsey on the same day there was as much as 2·41 ins.

Bright Sunshine exceeded the mean in Ireland, Scotland, and the northern parts of England, but was deficient in the centre, east, and south of England. The percentage of the possible duration ranged from 42 in Scotland E., 41 in England N.E., and 40 in Scotland W., to 29 in the Channel Islands, 26 in England S.W., and 24 in England S.

Barometer and Wind. The distribution of pressure was very unstable. The formation of a small but deep depression near Brittany on Sunday caused strong North-Easterly winds or slight gales on our southern coasts, but the dominant feature of the week was the passage eastwards of disturbances over the northern part of the Atlantic. These caused the wind to blow freshly or strongly between South-West and North-West over our Islands generally, while a system, whose centre passed quickly across the north of Scotland during Wednesday night, was accompanied by a fresh to whole gale over the Kingdom generally. In the rear of this system the wind veered to North-West or North, and for a time blew a fresh or strong breeze.

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II.—DATA from which the SUMMARY on page 235 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	54	35	49·0	41·7	45·2	− 2·0	24	1	7	1·87	+ 0·93	*	*	*	*
	Stornoway	57	35	52·1	41·6	46·†	− 0·9	35	1	7	2·29	+ 1·16	24·0	+ 2·4	31	+ 3
	Wick	58	34	52·9	41·6	47·1	− 1·1	37	1	7	0·95	+ 0·28	*	*	*	*
	Lairg Ⓢ	61	31	54·8	38·6	46·5	0·0	46	10	7	1·70	+ 0·87	*	*	*	*
	Glencarron Ⓢ	57	35	51·4	41·4	46·3	− 0·9	33	2	7	3·39	+ 1·46	*	*	*	*
	Fort Augustus Ⓢ	57	35	52·9	41·6	47·1	− 1·0	37	1	7	1·11	+ 0·18	18·9	+ 3·5	25	+ 5
	Fort William	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1. SCOTLAND, E.	Nairn	61	36	54·7	42·7	48·5	+ 0·1	46	0	5	0·76	+ 0·20	*	*	*	*
	Aberdeen	60	37	54·6	41·9	48·1	− 0·8	43	0	6	0·52	− 0·15	36·6	+ 11·9	48	+ 15
	Braemar Ⓢ	55	33	49·6	40·1	44·7	− 0·5	27	5	4	0·89	+ 0·04	*	*	*	*
	Ochtertyre Ⓢ	61	35	56·3	41·0	48·4	− 0·1	49	3	5	0·66	− 0·23	*	*	*	*
	Leith	62	37	58·0	44·1	50·8	+ 0·6	62	0	4	0·45	− 0·02	*	*	*	*
	Marchmont Ⓢ	58	34	53·1	39·4	46·1	− 1·6	40	7	2	0·62	− 0·15	30·5	+ 8·7	39	+ 11
2. ENGLAND, N.E.	Alnwick Castle	59	36	54·2	43·3	48·6	− 0·6	46	0	2	0·42	− 0·29	*	*	*	*
	Durham	60	34	54·9	40·5	47·5	− 1·8	45	4	3	0·45	− 0·19	38·6	+ 15·9	50	+ 20
	Shields	60	36	55·3	41·3	48·1	− 1·8	46	2	3	0·56	− 0·03	*	*	*	*
	Scarborough Ⓜ	62	39	57·8	43·6	50·5	− 0·1	60	0	4	0·22	− 0·46	34·7	—	45	—
	Spurn Head	60	43	56·6	46·6	51·5	− 0·4	67	0	2	0·18	− 0·31	*	*	*	*
	Lincoln	61	34	56·0	41·9	48·7	− 2·5	47	0	2	0·03	− 0·51	*	*	*	*
	Fulbeck (Lincolnshire)	63	33	56·1	42·5	49·1	− 0·9	50	0	2	0·05	− 0·49	29·2	—	37	—
3. ENGLAND, E.	Hillington Ⓜ	62	35	56·1	41·1	48·4	− 2·4	49	3	4	0·22	− 0·42	25·1	− 0·4	32	− 1
	Yarmouth	61	39	55·7	44·9	50·1	− 1·8	57	0	4	0·40	− 0·25	*	*	*	*
	Geldeston	64	35	56·8	42·3	49·3	− 2·2	51	0	5	0·19	− 0·38	27·3	− 1·9	35	− 2
	Cambridge	63	34	56·7	40·9	48·6	− 2·8	51	3	2	0·17	− 0·35	25·2	− 2·3	32	− 3
	Felixstowe	61	34	56·6	43·1	49·7	− 1·8	54	0	4	0·27	—	28·1	—	36	—
	Clacton-on-Sea	62	40	57·0	46·1	51·4	− 1·1	66	0	4	0·35	—	28·6†	—	37†	—
	Rothamsted	61	36	55·2	42·8	48·8	− 1·5	48	0	4	0·23	− 0·43	20·2	− 8·1	26	− 10
	Shoeburyness	63	40	57·6	46·1	51·7	− 1·4	68	0	4	1·14	+ 0·64	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	60	36	54·8	42·0	48·2	− 1·0	43	0	3	0·32	− 0·40	31·2	—	40	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	62	33	56·0	39·9	47·7	− 3·1	49	6	2	0·04	− 0·54	20·1	—	26	—
	Colly Weston (Stamford)	62	36	56·4	42·0	49·0	− 1·8	49	0	2	0·14	− 0·45	*	*	*	*
	Cheadle Ⓜ	62	38	54·5	41·2	47·7	− 1·6	43	2	2	0·36	− 0·39	*	*	*	*
	Birmingham (Edgbaston)	61	39	54·5	43·5	48·8	− 1·7	48	0	3	0·12	− 0·52	14·5	—	19	—
	Shrewsbury	64	31	56·7	40·7	48·5	− 2·6	51	4	3	0·20	—	*	*	*	*
	Hereford Ⓜ	63	35	58·4	40·8	49·3	− 1·3	56	3	4	0·06	− 0·58	*	*	*	*
	Cirencester	62	34	55·0	40·7	47·6	− 2·5	45	4	3	0·28	− 0·42	20·7	− 5·6	27	− 7
	Oxford	62	38	56·3	43·0	49·5	− 1·8	53	0	5	0·24	− 0·39	18·3	− 8·3	24	− 11
5. ENGLAND, S.	London	66	40	57·4	44·0	50·5	− 2·0	60	0	4	0·90	+ 0·33	12·0‡	− 9·7‡	15‡	− 12‡
	Wisley (Surrey)	63	38	56·6	43·2	49·7	− 4·7	54	0	5	0·96	—	12·1	—	16	—
	Swarraton (Alresford) Ⓜ	61	35	55·6	43·2	49·2	− 1·2	50	0	5	1·14	+ 0·40	*	*	*	*
	Tunbridge Wells Ⓜ	65	39	55·4	43·7	49·4	− 4·0	52	0	4	1·42	—	21·9	—	28	—
	Dungeness	61	39	57·4	47·7	52·4	− 1·5	73	0	5	1·34	+ 0·66	26·2	—	33	—
	Hastings (St. Leonards)	63	37	57·6	46·4	51·8	− 1·7	69	0	4	1·30	+ 0·53	26·4	− 5·2	33	− 7
	Southampton	62	39	58·6	45·3	51·8	− 1·3	69	0	4	1·65	+ 0·91	14·6	− 15·2	19	− 19
	Portland Bill	61	45	57·1	49·1	53·0	− 0·2	77	0	6	1·86	—	*	*	*	*
	Shaftesbury Ⓜ	58	38	54·0	44·7	49·2	− 1·1	50	0	4	1·56	+ 0·73	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	57	39	54·3	44·8	49·4	− 0·1	52	0	6	2·71	+ 1·08	*	*	*	*
	Glasgow	57	39	53·3	44·2	48·6	− 0·1	46	0	6	0·65	− 0·19	29·8	+ 11·5	39	+ 15
	Cally Ⓢ	60	32	57·4	40·2	48·6	− 0·3	54	5	5	1·35	+ 0·30	*	*	*	*
	Aspatria	59	37	54·9	42·8	48·7	− 1·5	47	0	4	0·67	—	31·4	—	40	—
	Douglas (Isle of Man)	58	41	55·3	43·2	49·1	− 1·2	50	0	5	0·83	− 0·13	31·9	+ 5·2	41	+ 7
7. ENGLAND, N.W.	Newton Rigg	59	30	54·4	40·0	47·0	− 1·4	43	6	4	0·60	—	34·6	—	44	—
	Stonyhurst	57	35	53·4	42·9	48·0	− 1·8	42	0	4	0·98	− 0·17	28·0	+ 5·1	30	+ 7
	Blackpool Ⓜ	58	32	55·3	42·7	48·8	− 2·4	48	0	5	0·79	− 0·13	31·5	+ 8·2	40	+ 11
	Manchester (Prestwich)	60	34	55·6	41·5	48·3	− 1·8	46	1	3	0·52	− 0·38	20·8	—	27	—
	Liverpool Obsy. (Bidston)	60	42	55·0	45·7	50·2	− 1·4	57	0	6	0·73	− 0·03	21·3	—	27	—
	Chester (Hawarden Bridge)	63	33	57·0	43·4	50·0	− 2·0	56	0	4	0·55	—	*	*	*	*
	Llandudno Ⓜ	62	44	56·9	47·2	51·9	− 0·8	69	0	5	0·50	− 0·34	23·7	+ 0·9	30	+ 1
	Holyhead	59	46	55·1	47·6	51·2	− 1·3	64	0	4	0·34	− 0·55	*	*	*	*
	Bettws-y-Coed	60	34	55·9	41·6	48·5	− 4·0	47	1	5	0·80	—	19·6	—	25	—
8. ENGLAND, S.W.	Pembroke	60	46	56·9	49·4	53·0	− 0·3	77	0	2	0·38	− 0·48	23·6	− 3·8	30	− 5
	Cardiff	62	39	57·1	45·3	51·0	—	63	0	5	0·76	—	*	*	*	*
	Clifton	61	43	57·3	46·4	51·7	− 0·1	68	0	3	0·65	− 0·19	*	*	*	*
	Bath	62	39	57·6	44·4	50·8	− 0·8	62	0	3	0·25	− 0·47	23·3	—	30	—
	Arlington (N. Devon)	61	43	54·9	46·4	50·6	− 0·7	60	0	6	1·82	+ 0·51	*	*	*	*
	Cullompton Ⓜ	65	40	57·4	46·5	51·8	+ 0·5	69	0	4	0·98	+ 0·13	17·4	− 8·3	22	− 11
	Falmouth	60	47	56·9	49·2	52·9	− 0·8	76	0	6	2·06	+ 0·96	17·9	− 12·3	23	− 16
	Plymouth	62	44	56·9	48·6	52·6	− 0·2	74	0	4	1·17	+ 0·34	21·8	− 6·7	28	− 9
9. IRELAND, N.	Malin Head	57	41	53·6	45·7	49·5	− 1·6	53	0	7	0·71	+ 0·01	*	*	*	*
	Edenfel (Omagh)	58	35	54·0	41·4	47·5	− 0·9	41	2	7	0·72	− 0·13	*	*	*	*
	Blacksod Point	58	44	55·3	47·3	51·2	− 0·8	64	0	7	0·57	− 0·54	*	*	*	*
	Markree Castle	62	36	56·0	42·7	49·2	− 0·3	50	0	6	0·50	− 0·43	24·3	+ 2·5	31	+ 3
	Armagh	60	38	56·3	41·9	48·9	− 0·5	49	0	6	0·20	− 0·46	28·4	+ 5·7	36	+ 7
	Donaghadee	58	38	54·9	43·1	48·8	− 1·7	48	0	5	0·39	− 0·28	*	*	*	*
10. IRELAND, S	Dublin	61	38	56·9	43·8	50·2	− 1·3	57	0	3	0·12	− 0·51	30·6	+ 2·8	39	+ 4
	Birr Castle	59	31	56·7	39·9	48·1	− 1·8	52	6	4	0·12	− 0·55	29·4	+ 4·0	38	+ 5
	Kilkenny	59	35	55·3	40·6	47·7	− 2·9	46	4	2	0·04	− 0·63	*	*	*	*
	Waterford	60	39	57·0	42·4	49·5	− 1·8	53	0	1	0·07	− 0·79	*	*	*	*
	Roche's Point	61	44	57·0	46·4	51·5	− 1·2	67	0	4	0·37	− 0·54	*	*	*	*
	Valencia	60	40	56·3	45·9	51·0	− 2·2	63	0	5	0·93	− 0·24	26·2	− 0·2	34	0
	Killarney	62	39	59·9	44·5	52·0	− 0·1	70	0	6	0·54	− 0·60	*	*	*	*
	Foynes	60	43	56·0	46·7	51·2	− 0·1	64	0	4	0·41	− 0·39	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	61	50	58·4	52·7	55·5	+ 0·1	95	0	6	1·83	+ 1·03	15·6	− 15·3	20	− 19
	Jersey	66	46	60·4	52·0	56·1	+ 0·2	99	0	6	3·13	+ 2·21	29·8	− 3·7	38	− 5

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

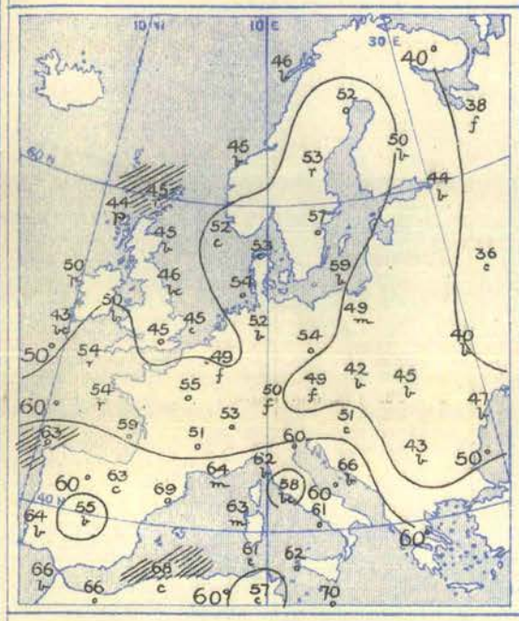
† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 33 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

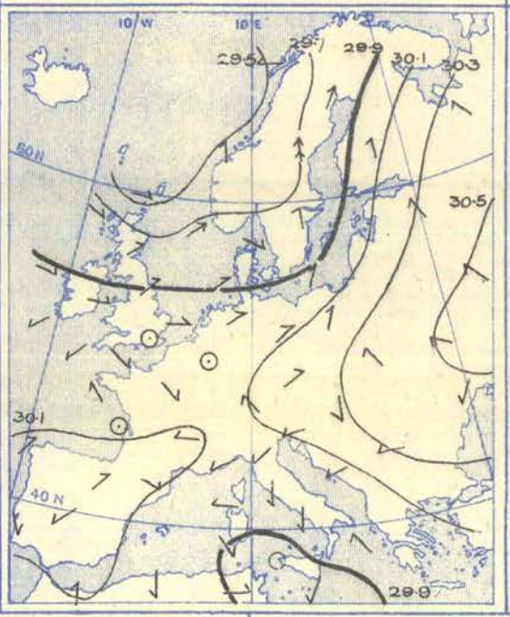
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 2nd October, 1904.

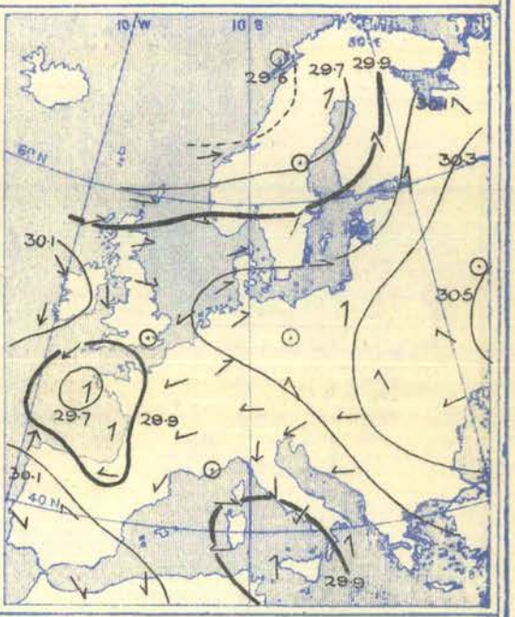
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. showery or rainy on our south-western and northern coasts, at Hernösand, Athens, and Aumale; fair or fine in most other regions, but foggy at Brussels and Oporto and cloudy at many English and Italian stations. Unusually heavy rain falling later in the Channel Islands and Brittany—largest amounts, 2·12 ins. at Jersey, 2·44 ins. at Brest, 2·96 ins. at Ushant, 1·8 ins. at Cherbourg. Thunderstorms and considerable rain experienced on the west coast of France, and heavy rain at some Mediterranean stations; 1·6 ins. at Palermo.

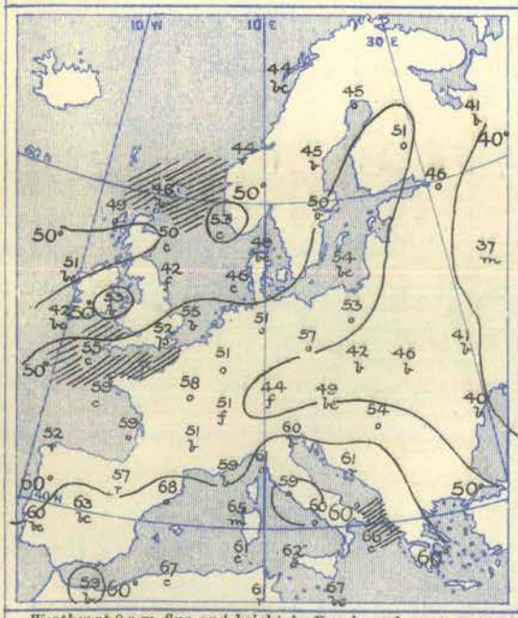
Temperature fallen over our Islands and Norway, changed irregularly elsewhere. Morning readings highest, 70° at Malta, 69° at Barcelona, and 66° at Lésina. Lowest, (1) 32° at Kharkov, 36° at Moscow, 38° at Archangel, 42° at Hermanstadt, (2) 40° at Parsonstown and 44° at Nairn. Rising subsequently to 86° at Sfax, 79° at Madrid, 77° at Cagliari, 75° at Biarritz and Lisbon, and to 70° and upwards at many other southern stations. Remaining below 60° at almost all our own stations.

Wind in morning between West and South in all the more northern parts of our area, and strong to a gale over the Gulf of Bothnia. Mainly Northerly or North-Easterly over the Mediterranean region, and strong in force at Athens. Light and anticyclonic in all the intervening districts. A cyclonic circulation of considerable strength setting in around the northern parts of the Bay of Biscay by evening, and North-Easterly wind increasing to a fresh gale in the English Channel during night.

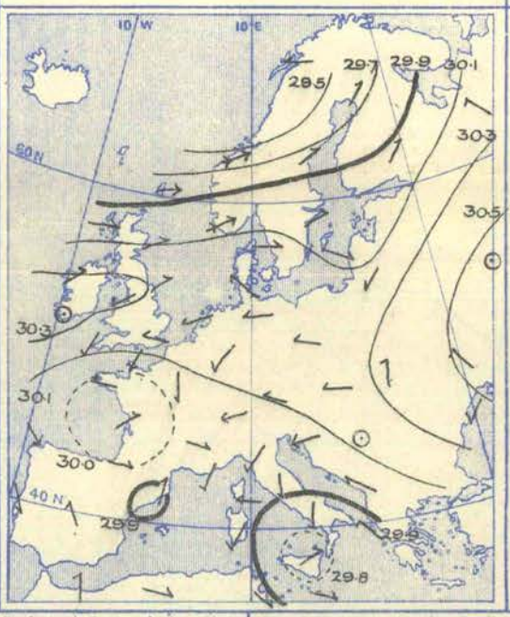
Barometer at 8 a.m. highest, 30·1 ins. to 30·5 ins. in a large anticyclone centred over Little Russia, and above 30·1 ins. in another system extending from the Peninsula to the centre and east of France. Lowest, 29·5 ins. in a depression off the north-west of Norway. No higher than 29·9 ins. over the central part of the Mediterranean. A small but deep depression forming later near Brittany and moving away southwards.

Monday, 3rd October, 1904.

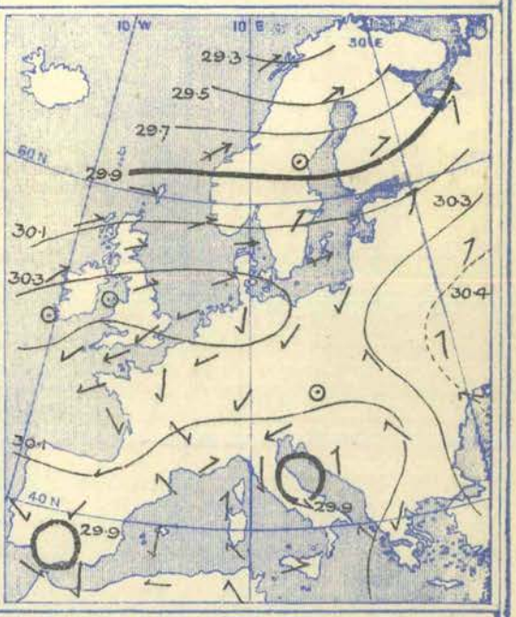
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in Russia and most parts of Spain and Portugal, fine over central Europe and Ireland, and fine but foggy at many English stations. Cloudy or overcast elsewhere, with rain on the shores of the Bay of Biscay, at Lésina, our own south-east coast, and at Christiansund and Helsingfors. Rain falling later in many other regions, very heavily at Lésina and in Italy—largest amounts, 1·8 ins. at Pesaro.

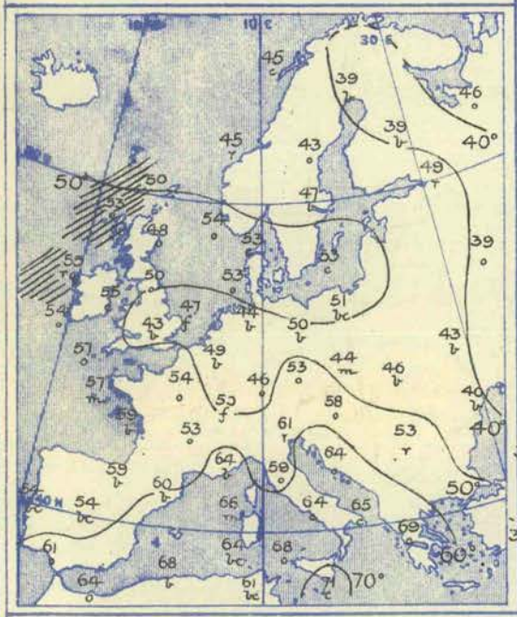
Temperature at 8 a.m. highest, 68° at Barcelona, 67° at Malta and Algiers, and 64° at Florence. Lowest, (1) 35° at Parsonstown and Nottingham, (2) 36° at Kharkov, 37° at Moscow, 41° at Archangel, (3) 44° at Munich. Remaining below 60° all day at most of our own stations, but rising to 71° at Paris, above 70° in the south generally, and above 80° in places. Highest figures, 91° at Sfax and 97° at Patras.

Wind at 8 a.m. showing a cyclonic circulation of light to fresh breezes over Italy and the adjacent seas. Westerly to South-Westerly over the northern parts of our area, moderate in force generally, but blowing a moderate gale in the Shetlands and a fresh or strong gale in Norway. A complete cyclonic circulation prevailing around the Bay of Biscay, the North-Easterly current being strong in the Channel, and a feeble anticyclonic movement over Russia. Little change later as a whole, but wind becoming variable over the Bay of Biscay.

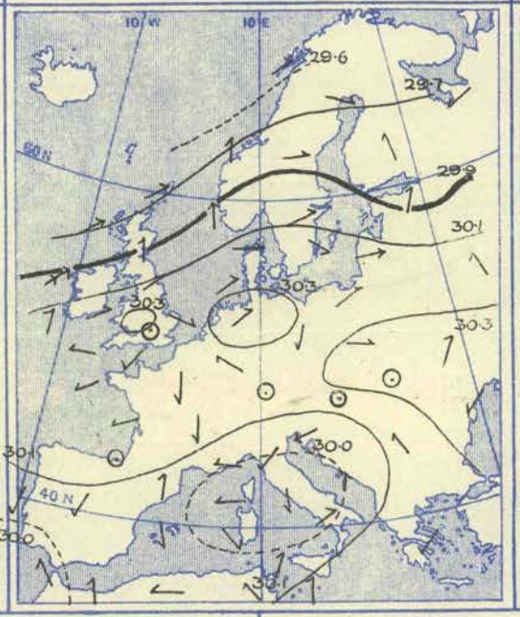
Barometer in morning ranging from above 30·5 ins. over the southern half of Russia and above 30·3 ins. in Ireland and the north-west of England, to about 29·9 ins. over the Bay of Biscay, less than 29·8 ins. over the south of Italy, and to below 29·5 ins. in a large disturbance over the north-west of Norway. High pressure in Ireland extending to North Germany by 6 p.m., and the northern depression travelling eastwards. Italian minimum moving northwards, and that over the Bay of Biscay apparently going southwards to the south of Spain.

Tuesday, 4th October, 1904.

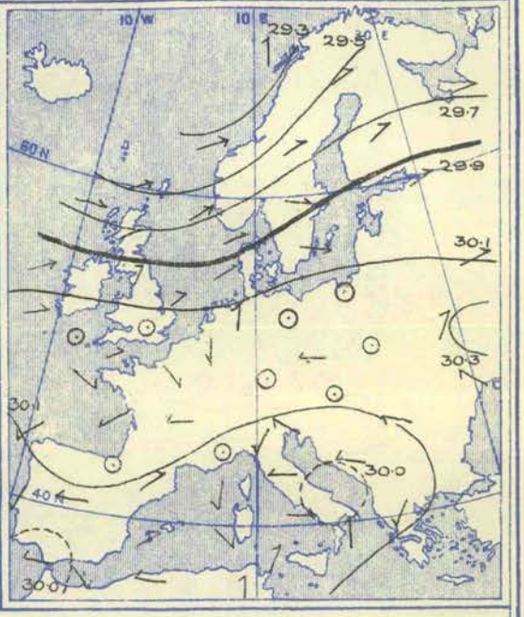
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in several parts of France and England, and also in the Spanish Peninsula, Algeria, and the southern half of Russia. Cloudy or overcast elsewhere, with rain in places. Rain falling later in Scandinavia, the north and west of these Islands, and in various parts of Italy and the Adriatic—largest amount, 1·4 ins. at Lésina.

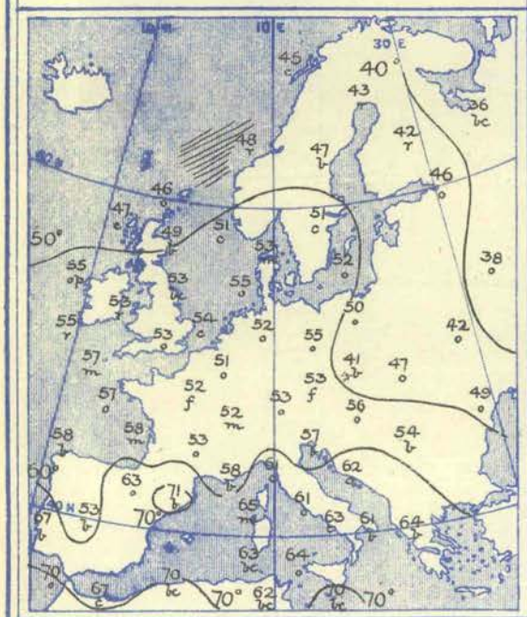
Temperature in morning highest, 72° at Palma, 71° at Malta, 69° at Athens, 66° at Oporto, and 64° at Nice. Lowest, (1) 35° at Kharkov, 39° at Moscow, Kuopio, and Haparanda, (2) 38° to 41° over central England, (3) 46° at Munich. Rising during day to 66° in London, and above 70° in the west of France and the south of Europe and in Algeria. Highest readings, 86° at Sfax, 84° at Patras, and 79° at Madrid and Cagliari.

Wind at 8 a.m. South-Westerly to Westerly over all the more northern countries, fresh or strong on our north-west coasts and in Norway, and strong to a gale in the north of Ireland. Mainly between North and East elsewhere, but a complete cyclonic circulation prevailing over Italy and its vicinity. East-North-East wind strong at Trieste. Little change later.

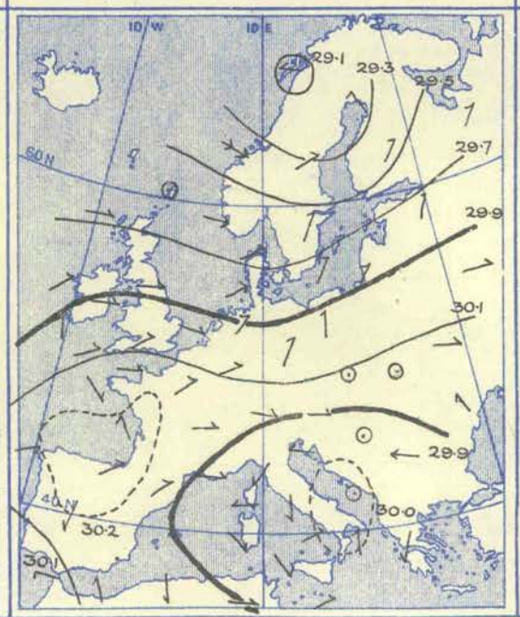
Barometer in morning ranging from 30·3 ins., or but little lower, in a large area extending from Russia to beyond the Bay of Biscay, to less than 30·0 ins. in a depression centred over Italy, and to less than 29·6 ins. in another disturbance in the far north-west of our area. Barometer falling decidedly in Norway later, and gradients in that region increasing considerably. No change taking place in the general distribution of pressure.

Wednesday, 5th October, 1904.

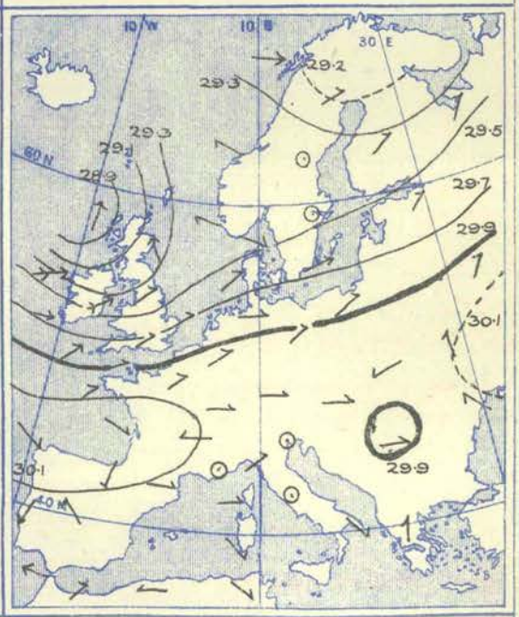
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast as a whole, but fine and bright over the Iberian Peninsula, several other parts of southern Europe, and in a few isolated places elsewhere. Rainy in Ireland, Wales, at Christiansund, Haparanda, and Kuopio. Rain falling later in all except the most southern regions and Russia—largest amounts, 0·95 in. at Sumburgh Head, 0·89 in. at Stornoway, 0·87 in. at Oxö, and 1·18 ins. at Charleville (north-east of France).

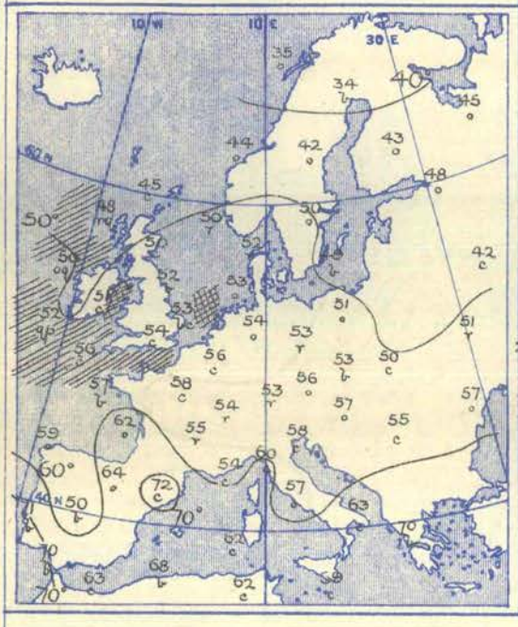
Temperature risen except over central Europe. Morning readings ranging from 71° at Barcelona and about 70° at a few other stations in the extreme south, to 45° at Bodö, 39° at Warsaw, 38° at Moscow, and 36° at Archangel. Rising during day to 82° at Lisbon and to nearly 80° at some other stations in the extreme south. Thermometer remaining below 60° in most parts of our Islands, and only touching 62° at Paris.

Wind at 8 a.m. showing two complete cyclonic circulations—one over Scandinavia, and the other over Italy and its neighbourhood. Westerly current strong to a gale over the west and south of Norway, and that from South-West strong in Denmark and Finland. Moderate South-Westerly winds on our north-west coast, and a light South-South-East breeze at Valencia Island. Increasing quickly to a fresh to strong Southerly to Westerly gale later over the whole of the United Kingdom and its immediate neighbourhood.

Barometer in morning highest, 30·2 ins. and upwards over the Bay of Biscay and the west of France, and only about a tenth lower in a narrow band stretching thence to the south of Russia. Lowest, less than 29·1 ins. in a depression over the north of Norway, and less than 30·0 ins. in a shallow minimum over the Adriatic. Pressure falling briskly on our own west coast. Fall becoming very rapid on our north-west coasts during day, and the centre of a deep depression moving quickly eastwards across the north of Scotland during the night.

Thursday, 6th October, 1904.

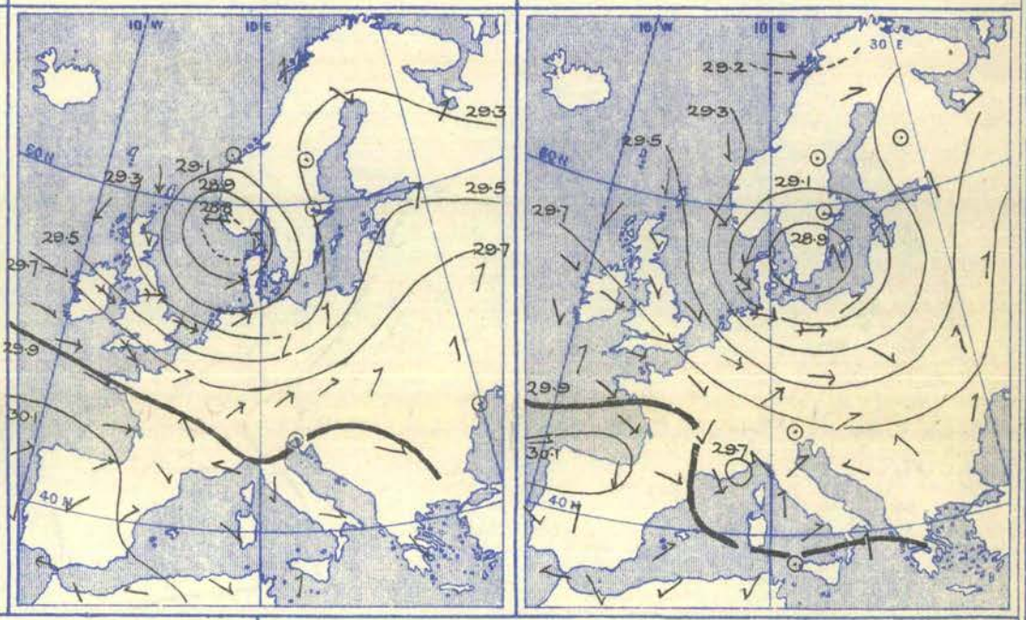
Temperature and Weather. 8 a.m.



Weather at 8 a.m. in a very rough and unsettled state over the United Kingdom and the northern half of the Continent, with rain or showers in many places. Fine over the Spanish Peninsula and fair in some other southern regions, but rainy at Lyons. Rain later except over southern Europe, heavy in places, especially in the south of Scandinavia, the north of France, and the south of England.

Temperature risen in some southern districts and over Russia, fallen elsewhere. Morning readings highest, 72° at Barcelona, 70° at Athens and San Fernando, 69° at Malta, and 68° at Algiers. Lowest, 35° at Bodö, 42° at Moscow, 45° at Sumburgh Head, 50° at Madrid and Lemberg, and below 60° generally. Maxima during day below 60° at most of our own stations and in the north of France, but above 70° in the south generally and above 80° in places.

Barometer and Wind. 8 a.m. and 6 p.m.

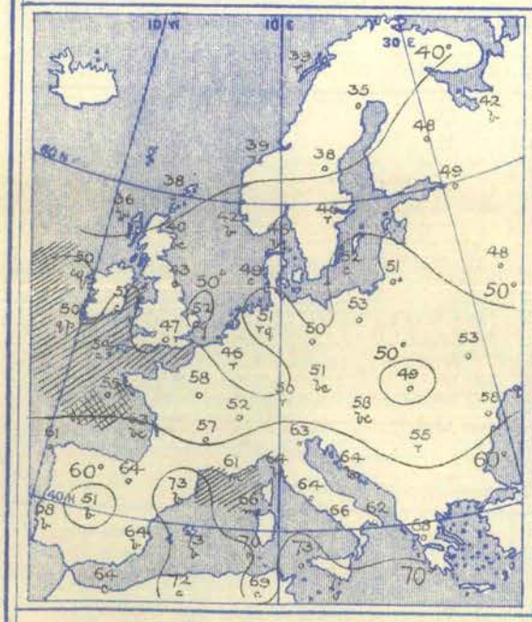


Wind at 8 a.m. showing a vast cyclonic circulation over all but the most southern countries. North-Westerly to Westerly current blowing a gale over the United Kingdom, the north of France, the Netherlands, and the North Sea, and that from the Eastward and South-Eastward almost equally strong to the eastward of the North Sea. A whole gale from West blowing at Spurn Head. Gale subsiding gradually over our Islands and their neighbourhood, but increasing in force on the eastern shores of the North Sea.

Barometer at 8 a.m. ranging from above 30·0 ins. in the south of Spain and Portugal to less than 28·8 ins. in the centre of a very large and deep depression off the south coast of Norway. Gradients steep and rather uniform over nearly the whole of north-western Europe. Depression travelling eastwards to the south of Sweden by 6 p.m., but a secondary appearing over the Bristol Channel. Barometer rising briskly on our northern coasts.

Friday, 7th October, 1904.

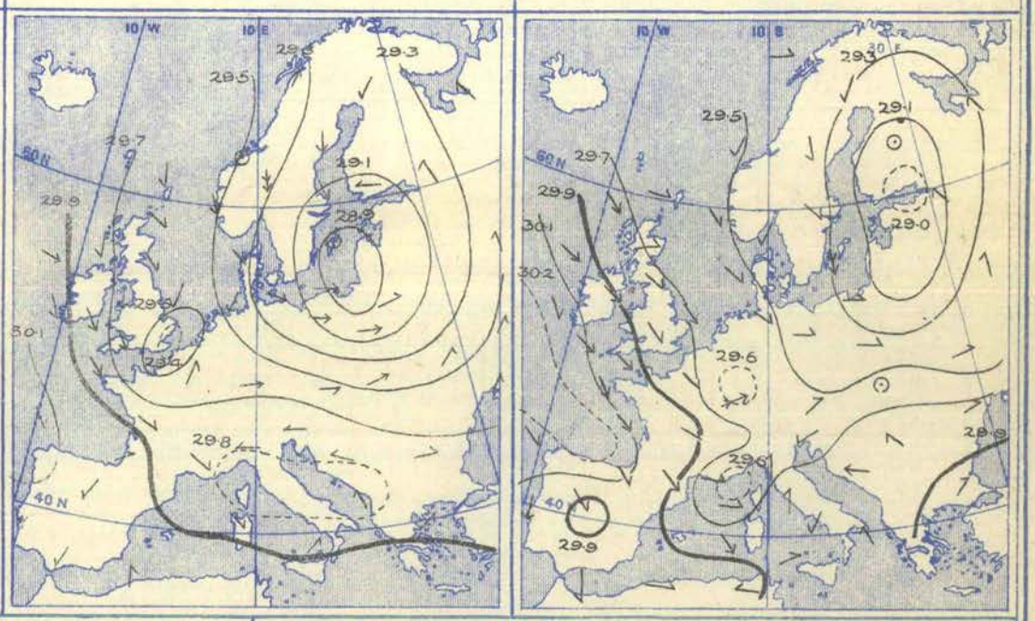
Temperature and Weather. 8 a.m.



Weather at 8 a.m. fair or fine at most stations in the south of our area, but cloudy, or dull and unsettled generally, with rain in many places. Rain falling in most regions later, heavily over Austria, the Netherlands, the neighbouring parts of France and Germany, and on our extreme south-east coasts—largest amounts, 1·65 ins. at Cape Gris Nez and Frankfurt.

Temperature fallen except in Italy and Algeria. Morning readings ranging from 73° at Palma, Barcelona, and Palermo, and about 70° at a few other Mediterranean stations, to below 50° over the northern half of our area generally, and to less than 40° in the north of Scotland and Scandinavia. Maxima low excepting in extreme south; only 51° in London and 48° at Nottingham. Thermometer rising to 90° at Algiers and Aumale, 82° at Madrid, 81° at Perpignan, and to a little less than 80° at several other stations.

Barometer and Wind. 8 a.m. and 6 p.m.

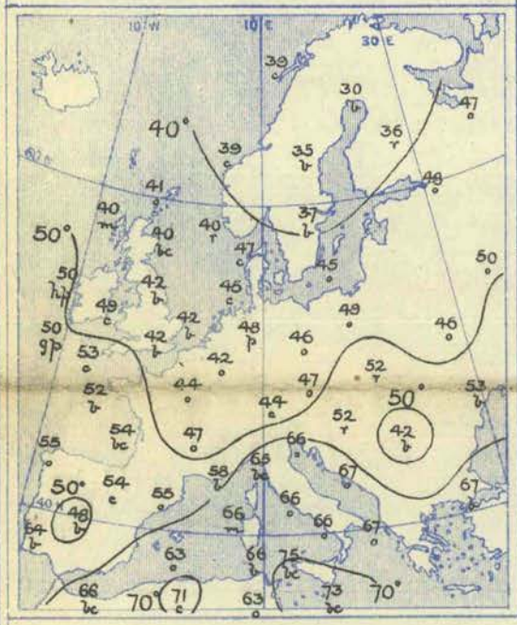


Wind at 8 a.m. showing three cyclonic circulations—one around the Baltic, another around the eastern portion of the English Channel, and a third over Italy and its vicinity. North-Westerly current strong to a slight gale both over Scandinavia and Germany, and also over the United Kingdom and the west and north of France. Wind increasing to a gale over the east of France by evening.

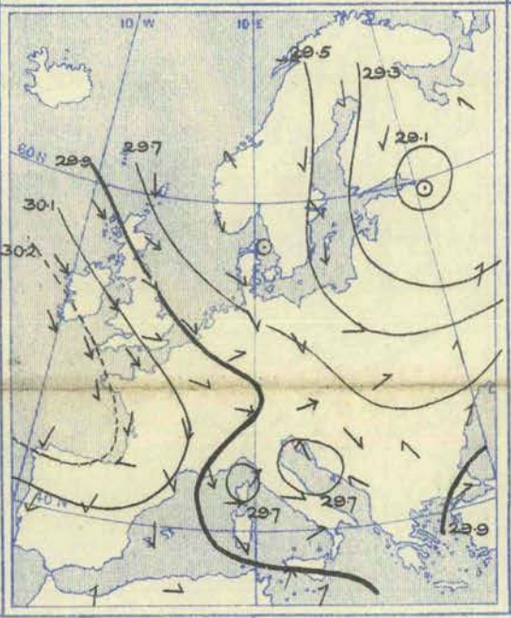
Barometer at 8 a.m. highest, 30·1 ins. and upwards in the extreme south-west of our area. Lowest, 28·9 ins. and less in a deep depression centred over the Baltic, less than 29·4 ins. in a secondary near the Straits of Dover, and below 29·8 ins. in a large shallow system over southern Europe. Latter system increasing in depth during day and two other depressions appearing—one over the Jura and Vosges, and the other over Spain. Baltic disturbance moving to the Gulf of Finland.

Saturday, 8th October, 1904.

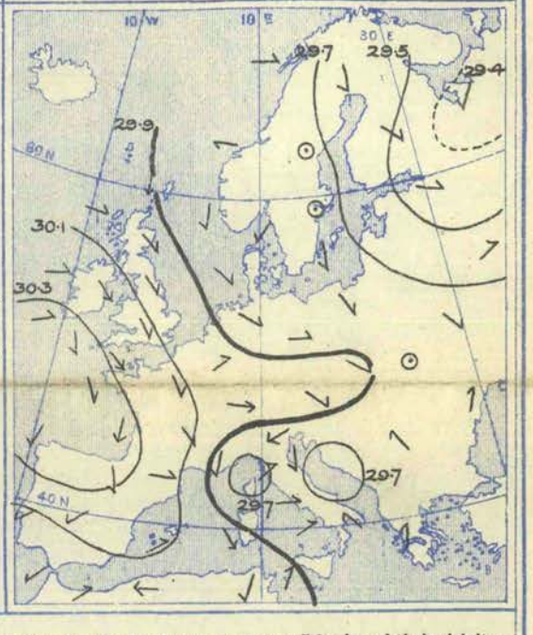
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. showery and squally, with hail on our own western and north-western coasts and very unsettled, with rain in places over our area generally. Fine or fair in most parts of Great Britain, the west of France, the south of Russia, and on many shores of the Mediterranean, and also in Portugal. Heavy rain falling later in Italy—more than an inch at Naples and Pesaro—and considerable quantities in Holland, Belgium, and the Hebrides.

Temperature fallen except in Scotland and Italy. Morning readings highest, 75° at Palermo, 73° at Malta, 71° at Algiers, and 67° at Constantinople and on the shores of the Adriatic. Lowest, (1) 30° at Uleaborg, 32° at Haparanda and Karlstad, (2) 40° or 41° in the extreme north of Scotland, 42° at Shields and Yarmouth, (3) 41° at Limoges, (4) 42° at Hermanstadt. Rising later to 90° at Sfax, 81° at Malta, 79° at San Fernando, and to 70° or above at nearly all the Mediterranean stations. Maxima over central Europe not much above 50°.

Wind at 8 a.m. fresh or strong from the North-Westward over our Islands and their vicinity, moderate from the Northward over the west of France, and from the North-Eastward in the Spanish Peninsula. A large cyclonic circulation of moderate force prevailing over the north of Russia, and a similar movement of stronger winds over Italy and the central part of the Mediterranean. Wind backing to the South-Westward on our western coasts by evening.

Barometer at 8 a.m. ranging from above 30·3 ins. in an anticyclone extending from Spain to Ireland, to below 29·7 ins. in a complex depression centred over the Gulfs of Genoa and Venice, and to less than 29·1 ins. in another and larger disturbance having its minimum near St. Petersburg. Northern depression travelling away eastwards during day, but a fresh system approaching Ireland and barometer beginning to fall along our western coasts.

IV.—GENERAL NOTES, etc.

During the earlier half of the week there was generally a high pressure area over the southern half of Russia extending some distance westwards towards central Europe, while another "high" over the Spanish Peninsula or the Bay of Biscay sometimes extended a considerable way eastwards. The depressions were confined mostly to the Mediterranean and the far north of our area, but a small energetic system that formed near Brittany quite at the commencement of the week and moved quickly southwards caused strong winds or gales in its immediate vicinity and unusually heavy falls of rain. The chief low pressure system of the week arrived off the Hebrides during the evening of the 5th, and subsequently travelled quickly eastwards to the south of Scandinavia and finally to the north of Russia, the barometer at the same time falling decidedly in the south of that country. This disturbance was accompanied by a general gale over the northern half of Europe, its force being greatest on some of our own coasts and on the eastern and southern shores of the North Sea. At the end of the week the Spanish anticyclone had extended northwards to Ireland and the wind had become North-Westerly over all the western countries. Temperature changed a good deal from day to day, and rain was very prevalent over all the northern and north-western regions, as well as in Italy, the Adriatic, and the neighbouring portion of the Mediterranean.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 236.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	28·5	+ 8·9	37	+ 10
STRATHPEFFER SPA	24·4	+ 1·4	32	+ 2
CRATHES	35·0	—	46	—
BALRUDDERY	27·3	—	36	—
EDINBURGH	33·3	+ 12·7	43	+ 16
COCKLE PARK	35·8	—	46	—
NEWCASTLE-on-TYNE	31·0	—	40	—
YORK	25·5	+ 3·1	33	+ 4
SKEGNESS	26·6	—	34	—
CROMER	29·4	—	38	—
LOWESTOFT	28·5	—	37	—
DUNMOW	20·7	—	27	—
SHEFFIELD	19·3	—	25	—
WORKSOP	24·4	+ 2·7	31	+ 4
THURCASTON	20·5	- 2·7	26	- 3
MARGATE	23·4	- 4·5	30	- 6
BROADSTAIRS	27·1	—	35	—
RAMSGATE	26·1	—	34	—
EASTBOURNE	25·5	- 5·9	32	- 7
BRIGHTON	22·6	- 9·0	29	- 11
WORTHING	23·0	—	29	—
BOGNOR †	27·9†	—	35†	—
WESTBOURNE †	21·5†	- 8·7	27†	- 11
VENTNOR HOSPITAL	19·0	- 13·4	24	- 17
BOURNEMOUTH	14·1	—	18	—
MARLBOROUGH	12·3	- 13·2	16	- 17
SOUTHPORT	28·8	—	37	—
RHYL †	21·6	—	28	—
ABERDOVEY †	24·3†	—	31†	—
TENBY	26·9	- 1·1	35	- 1
TORQUAY	16·7	- 12·5	21	- 16
NEWQUAY	19·8	- 9·4	25	- 12
GUERNSEY †	23·6†	- 7·9	30†	- 10

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.

NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 23, page 134 — Hereford	—	—	64·7	—	54·1	- 2·3	85	—	—	—	—	—	—	—	—
Swarraton	—	—	62·8	—	54·4	- 0·4	87	—	—	—	—	—	—	—	—
Tunbridge Wells	—	—	62·2	47·0	54·1	- 1·8	85	—	—	—	—	—	—	—	—
Glasgow	—	—	—	—	—	—	—	—	—	—	—	62·1	+25·4	52	+ 21
No. 24, page 140 — Sumburgh Head	—	—	54·7	—	50·1	+ 0·6	—	—	—	—	—	—	—	—	—
Scarborough	—	—	—	—	—	—	—	—	—	—	—	36·8	—	31	—

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 41. FORTY-FIRST WEEK, ENDING SATURDAY, OCTOBER 15TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS (See p. 242.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	58	27	53·0	38·5	45·6	1 below	40	+ 5	10	+ 2	1881	+ 37	498	- 85
	1. SCOTLAND, EAST	61	23	54·3	35·5	44·6	2 below	46	+ 7	18	+ 8	2051	-136	604	- 15
	2. ENGLAND, N.E.	64	28	55·4	39·2	47·1	2 below	47	+ 3	8	+ 3	2500	+118	439	- 62
	3. ENGLAND, EAST	63	26	56·1	41·9	48·8	1 below	48	- 3	0	- 6	2786*	+ 25	404	-147
	4. MIDLAND COUNTIES	65	26	55·9	39·2	47·3	1 below	49	+ 2	8	0	2570*	-140	483	- 86
	5. ENGLAND, SOUTH	66	27	56·9	42·0	49·2	2 below	50	-10	0	- 3	2851	-163	345	- 61
Principal Grazing Districts.	6. SCOTLAND, WEST	59	30	55·0	41·0	47·7	0 (average)	44	0	3	- 2	2245	- 71	378	- 53
	7. ENGLAND, N.W.	62	28	55·4	41·2	48·1	2 below	46	- 3	2	- 1	2457	- 87	388	- 19
	8. ENGLAND, S.W.	65	34	57·2	45·0	50·9	0 (average)	62	+ 4	0	- 2	2813	+ 1	252	- 59
	9. IRELAND, NORTH	58	30	54·7	41·7	48·0	1 below	43	- 3	1	- 3	2277	-171	338	- 29
	10. IRELAND SOUTH	66	33	57·7	46·0	51·7	2 above	68	+14	0	- 3	2690	- 85	232	- 33
	— CHANNEL ISLANDS	62	46	59·7	50·8	55·1	1 above	92	+12	0	0	3259	+ 13	80	- 41

Rainfall.

	DISTRICTS. (See p. 242.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	6	5 less	191	+17	40·4	+ 4·2
	1. SCOTLAND, EAST	2	1	6 less	160	+ 9	22·0	- 1·8
	2. ENGLAND, N.E.	1	1	6 less	131	- 6	17·0	- 2·1
	3. ENGLAND, EAST	0	0	6 less	127	-11	15·9	- 2·6
	4. MIDLAND COUNTIES	2	1	6 less	138	+ 6	19·8	- 1·4
	5. ENGLAND, SOUTH	2	1	7 less	142	+13	21·2	+ 0·2
Principal Grazing Districts.	6. SCOTLAND, WEST	4	4	8 less	162	+ 6	38·5	+ 1·6
	7. ENGLAND, N.W.	2	2	8 less	154	+ 8	24·1	- 1·9
	8. ENGLAND, S.W.	4	4	6 less	156	+ 9	29·7	+ 1·6
	9. IRELAND, NORTH	4	3	6 less	195	+18	30·3	+ 2·9
	10. IRELAND, SOUTH	4	5	4 less	174	+16	32·1	+ 1·9
	— CHANNEL ISLANDS	4	4	5 less	177	+27	28·6	+ 5·1

Bright Sunshine.

	DISTRICTS. (See p. 242.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	17	- 1	24	- 2	1090	+ 62	28	+ 2
	1. SCOTLAND, EAST	29	+10	40	+14	1134	- 43	30	- 1
	2. ENGLAND, N.E.	32	+ 7	43	+ 9	1296	- 14	34	0
	3. ENGLAND, EAST	32	+ 5	43	+ 7	1494	+ 36	40	+ 1
	4. MIDLAND COUNTIES	27	+ 6	36	+ 8	1265	+ 46	34	+ 1
	5. ENGLAND, SOUTH	30	+ 4	40	+ 5	1472	+ 36	39	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	26	+ 2	35	+ 2	1212	- 31	32	- 1
	7. ENGLAND, N.W.	34	+16	45	+21	1315	+121	35	+ 3
	8. ENGLAND, S.W.	23	- 4	30	- 6	1399*	- 83	37	- 2
	9. IRELAND, NORTH	20	0	27	0	1131	- 2	30	0
	10. IRELAND, SOUTH	16	- 9	21	-12	1228	- 62	33	- 2
	— CHANNEL ISLANDS	34	+ 5	45	+ 7	1644	- 60	44	- 2

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was mostly fine and dry, especially in the English districts. In the far west and north-west of our Islands the conditions were less settled, but even there the rainfall was slight.

Temperature was 1° or 2° below the mean in most parts of the Kingdom, but just equal to it in Scotland W. and England S.W., and a degree above it in Ireland S. and the Channel Islands. The highest of the maxima occurred on the 11th at most stations, and ranged from 66° in England S. and Ireland S., to 58° in Scotland N. and Ireland N. The lowest of the minima, which were registered during the latter half of the week, varied from 23° in Scotland E. and 26° in England E. and the Midland Counties, to 34° in England S.W., and to 46° in the Channel Islands.

Rainfall was much less than the mean in all districts. At several English stations, especially in the east, the week was quite rainless.

Bright Sunshine exceeded the mean generally, but was deficient in Scotland N., England S.W., and Ireland S., and only just equal to it in Ireland N. The percentage of the possible duration ranged from 45 in England N.W. and the Channel Islands, 43 in England N.E. and E., and 40 in England S. and Scotland E., to 24 in Scotland N., and to 21 in Ireland S.

Barometer and Wind. During the earlier days of the period depressions skirted our most north-western and northern coasts, and the winds were moderate to fresh from the South-Westward. By Wednesday, however, the depressions had disappeared, and an anticyclone moved over the Kingdom from the westward, accompanied by light airs. This system subsequently passed north-eastwards to Scandinavia, and a depression at the same time approaching our south-western coasts from the southward, the wind drew into East very generally, and blew freshly or strongly on all our southern coasts.

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II.—DATA from which the SUMMARY on page 241 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	54	36	51·9	41·9	46·8	+ 0·6	34	0	4	0·51	- 0·45	*	*	*	*
	Stornoway	56	32	53·9	40·4	47·0	+ 0·7	42	4	7	0·98	- 0·19	14·1	- 6·3	19	- 9
	Wick	55	34	52·6	38·9	45·6	- 1·1	38	9	4	0·35	- 0·33	*	*	*	*
	Lairg 𝔖	58	27	53·9	35·1	44·2	- 0·7	44	19	5	0·39	- 0·46	*	*	*	*
	Glencarron 𝔖	57	31	52·1	37·5	44·6	- 1·2	37	13	5	0·79	- 1·18	*	*	*	*
	Fort Augustus 𝔖	56	28	53·7	37·4	45·3	- 1·7	42	13	3	0·34	- 0·59	15·2	+ 0·9	21	+ 1
	Fort William	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1. SCOTLAND, E.	Nairn	60	28	55·9	34·6	44·9	- 1·8	51	21	2	0·13	- 0·42	*	*	*	*
	Aberdeen	59	31	53·9	35·7	44·5	- 3·0	44	18	1	0·06	- 0·61	32·4	+ 9·1	44	+ 13
	Braemar 𝔖	53	23	50·1	35·2	42·4	- 1·4	31	19	4	0·09	- 0·79	*	*	*	*
	Ochtertyre 𝔖	58	27	54·6	34·9	44·5	- 2·7	47	20	2	0·11	- 0·82	*	*	*	*
	Leith	61	30	57·3	36·7	46·7	- 2·0	55	15	3	0·06	- 0·40	*	*	*	*
	Marchmont 𝔖	58	30	54·1	35·6	44·6	- 1·7	45	18	2	0·29	- 0·50	33·7	+ 13·5	46	+ 18
2. ENGLAND, N.E.	Alnwick Castle	60	29	54·0	35·9	44·7	- 3·1	45	17	2	0·15	- 0·58	*	*	*	*
	Durham	60	29	53·7	37·0	45·1	- 2·6	43	14	1	0·08	- 0·60	28·4	+ 7·2	38	+ 10
	Shields	62	34	54·7	37·6	45·9	- 2·5	46	12	1	0·07	- 0·55	*	*	*	*
	Scarborough 𝔐	62	35	56·3	43·2	49·6	+ 0·4	53	0	2	0·12	- 0·60	28·6	—	38	—
	Spurn Head	59	40	56·0	43·7	49·7	- 0·6	54	0	1	0·03	- 0·49	*	*	*	*
	Lincoln	64	28	56·5	38·8	47·4	- 1·9	51	9	1	0·04	- 0·50	*	*	*	*
	Fulbeck (Lincolnshire)	64	29	56·5	38·0	47·0	- 1·1	52	11	1	0·03	- 0·52	37·9	—	51	—
3. ENGLAND, E.	Hillington 𝔐	59	29	56·7	37·6	46·9	- 2·3	53	12	0	0·01	- 0·63	27·2	+ 3·8	36	+ 5
	Yarmouth	57	38	54·1	44·7	49·3	- 0·9	51	0	0	0·00	- 0·65	*	*	*	*
	Geldeston	63	32	57·0	39·8	48·2	- 1·8	53	6	0	0·00	- 0·60	32·5	+ 5·9	43	+ 8
	Cambridge	61	26	57·0	36·8	46·6	- 2·8	54	15	0	0·00	- 0·54	29·1	+ 3·8	39	+ 5
	Felixstowe	58	42	55·6	47·9	51·6	+ 1·7	67	0	0	0·00	—	39·2	—	52	—
	Clacton-on-Sea	59	34	56·0	44·9	50·3	- 0·3	58	0	0	0·00	—	39·4†	—	53†	—
	Rothamsted	60	28	55·5	37·7	46·3	- 2·4	48	12	1	0·01	- 0·66	33·3	+ 7·1	44	+ 10
	Shoeburyness	61	36	56·7	46·1	51·2	- 0·7	64	0	0	0·00	- 0·51	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	59	33	53·4	38·5	45·7	- 1·8	41	10	1	0·08	- 0·66	30·3	—	40	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	63	29	56·7	37·4	46·8	- 2·0	53	13	3	0·07	- 0·51	29·6	—	40	—
	Colly Weston (Stamford)	62	32	56·6	39·4	47·8	- 1·4	52	7	3	0·03	- 0·57	*	*	*	*
	Cheadle 𝔐	60	36	54·9	41·1	47·8	+ 0·4	44	3	2	0·04	- 0·72	*	*	*	*
	Birmingham (Edgbaston)	60	38	55·4	43·4	49·2	+ 0·4	50	0	2	0·12	- 0·52	23·0	—	31	—
	Shrewsbury	63	26	56·9	37·6	47·0	- 2·2	53	12	1	0·06	—	*	*	*	*
	Hereford 𝔐	65	29	57·3	37·6	47·2	- 1·8	55	12	3	0·08	- 0·56	*	*	*	*
	Cirencester	61	32	55·5	38·4	46·7	- 1·6	48	10	1	0·05	- 0·67	26·0	+ 1·6	35	+ 2
	Oxford	63	30	56·7	39·0	47·6	- 2·2	52	8	1	0·01	- 0·62	29·3	+ 4·8	39	+ 6
5. ENGLAND, S.	London	59	33	57·4	39·4	48·1	- 2·4	54	7	1	0·02	- 0·58	17·8‡	- 1·3‡	24‡	- 2‡
	Wisley (Surrey)	63	27	56·8	37·4	46·8	- 5·3	53	13	1	0·01	—	27·3	—	36	—
	Swarraton (Alresford) 𝔐	61	31	56·1	38·1	46·8	- 2·0	50	11	2	0·07	- 0·69	*	*	*	*
	Tunbridge Wells 𝔐	59	32	56·0	40·1	47·8	- 2·8	49	5	2	0·04	—	30·4	—	41	—
	Dungeness	60	32	56·4	44·0	50·0	- 2·2	56	0	2	0·06	- 0·66	34·2	—	46	—
	Hastings (St. Leonards)	62	37	56·9	45·0	50·8	- 1·1	62	0	3	0·24	- 0·58	33·4	+ 4·4	45	+ 6
	Southampton	66	39	59·7	43·8	51·5	+ 0·1	67	0	2	0·03	- 0·72	34·6	+ 7·2	46	+ 10
	Portland Bill	62	43	57·9	47·7	52·7	+ 1·2	75	0	1	0·20	—	*	*	*	*
	Shaftesbury 𝔐	63	37	55·1	42·3	48·5	- 1·0	46	0	2	0·08	- 0·76	*	*	*	*
6. SCOTLAND W.	Laudale (Loch Sunart)	56	35	54·2	43·0	48·4	+ 0·5	45	0	5	0·82	- 0·81	*	*	*	*
	Glasgow	55	35	52·4	41·2	46·6	- 0·6	36	2	3	0·09	- 0·75	18·5	+ 1·9	25	+ 3
	Cally 𝔖	59	30	57·7	37·9	47·5	+ 0·2	56	11	4	0·37	- 0·69	*	*	*	*
	Aspatria	57	35	55·4	39·1	47·0	- 1·4	47	8	3	0·28	—	32·8	—	44	—
	Douglas (Isle of Man)	57	36	55·1	43·7	49·2	+ 0·3	50	0	3	0·21	- 0·79	25·9	+ 1·3	35	+ 2
7. ENGLAND, N.W.	Newton Rigg	58	28	53·6	35·7	44·4	- 2·6	43	18	2	0·06	—	28·0	—	38	—
	Stonyhurst	58	34	53·1	40·4	46·6	- 1·6	39	4	3	0·50	- 0·64	34·7	+ 13·5	46	+ 18
	Blackpool 𝔐	59	35	55·1	40·4	47·5	- 2·1	45	4	2	0·10	- 0·84	35·5	+ 14·1	47	+ 19
	Manchester (Prestwich)	61	32	55·1	40·3	47·5	- 0·9	46	5	2	0·12	- 0·80	25·6	—	34	—
	Liverpool Obsy. (Bidston)	61	38	54·7	43·4	48·9	- 1·1	48	0	1	0·09	- 0·68	35·2	—	47	—
	Chester (Hawarden Bridge)	62	33	56·3	40·7	48·3	- 1·8	50	4	2	0·17	—	*	*	*	*
	Llandudno 𝔐	61	37	57·6	45·0	51·1	- 0·1	64	0	3	0·13	- 0·74	40·2	+ 19·3	54	+ 26
	Holyhead	59	41	56·3	45·7	50·8	- 0·5	62	0	2	0·25	- 0·69	*	*	*	*
	Bettws-y-Coed	61	31	56·6	39·3	47·7	- 2·9	51	8	4	0·20	—	33·3	—	44	—
8. ENGLAND, S.W.	Pembroke	58	44	55·9	49·4	52·6	+ 0·5	74	0	5	0·32	- 0·58	10·8	- 14·1	14	- 19
	Cardiff	63	38	57·3	42·3	49·6	- 1·3	53	0	4	0·26	—	*	*	*	*
	Clifton	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Bath	64	34	57·7	40·7	49·0	- 1·0	54	4	2	0·18	- 0·53	28·5	—	38	—
	Arlington (N. Devon)	59	37	55·0	44·3	49·5	- 0·3	53	0	5	0·64	- 0·73	*	*	*	*
	Cullompton 𝔐	65	38	57·8	42·4	49·9	+ 0·6	55	0	2	0·08	- 0·79	15·3	- 8·0	20	- 11
	Falmouth	61	46	57·9	49·0	53·3	+ 0·9	79	0	3	0·80	- 0·35	29·3	+ 1·6	39	+ 2
	Plymouth	62	43	58·9	46·7	52·6	+ 1·1	74	0	4	0·42	- 0·42	25·2	- 0·6	33	- 1
9. IRELAND, N.	Malin Head	56	37	54·7	42·6	48·5	- 1·1	46	0	4	0·22	- 0·47	*	*	*	*
	Edenfel (Omagh)	55	30	53·6	37·6	45·4	- 1·4	42	12	4	0·34	- 0·51	*	*	*	*
	Blacksod Point	58	41	55·0	45·7	50·2	- 0·4	57	0	5	0·38	- 0·78	*	*	*	*
	Markree Castle	57	30	54·4	39·9	46·9	- 1·1	43	6	4	0·37	- 0·58	18·1	- 2·3	24	- 3
	Armagh	58	32	55·6	40·8	48·0	+ 0·3	47	3	4	0·19	- 0·46	22·4	+ 1·5	30	+ 2
	Donaghadee	58	39	55·0	33·3	49·0	- 0·2	49	0	3	0·07	- 0·63	*	*	*	*
10. IRELAND, S	Dublin	62	36	57·0	44·8	50·7	+ 0·6	61	0	2	0·05	- 0·60	20·3	- 5·7	27	- 8
	Birr Castle	59	33	56·1	40·1	47·9	- 0·4	49	5	4	0·36	- 0·32	13·2	- 10·4	18	- 14
	Kilkenny	61	39	56·1	42·9	49·3	+ 0·1	51	0	4	0·36	- 0·34	*	*	*	*
	Waterford	63	40	57·7	45·4	51·4	+ 1·7	66	0	5	1·27	+ 0·39	*	*	*	*
	Roche's Point	59	47	57·3	49·9	53·5	+ 1·9	81	0	5	0·21	- 0·73	*	*	*	*
	Valencia	60	46	58·1	50·0	53·9	+ 2·0	83	0	5	0·93	- 0·31	13·9	- 10·5	19	- 14
	Killarney	66	43	60·0	43·8	54·2	+ 3·4	85	0	5	0·61	- 0·63	*	*	*	*
	Foynes	65	41	59·1	45·8	52·3	+ 2·7	72	0	4	0·38	- 0·46	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	62	50	60·1	51·6	55·7	+ 1·5	96	0	3	0·43	- 0·40	33·9	+ 6·2	45	+ 8
	Jersey	62	46	59·3	50·0	54·5	+ 0·2	88	0	4	0·45	- 0·52	32·8	+ 2·2	43	+ 3

Stations Marked 𝔐 are in connection with the Royal Meteorological Society, and those marked 𝔖 with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

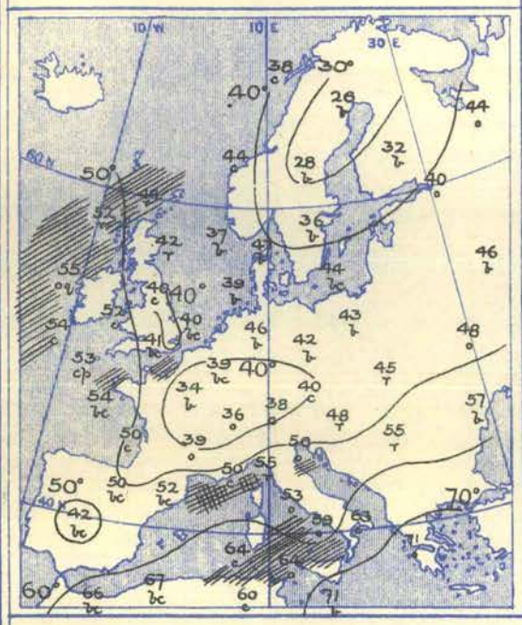
† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 33 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

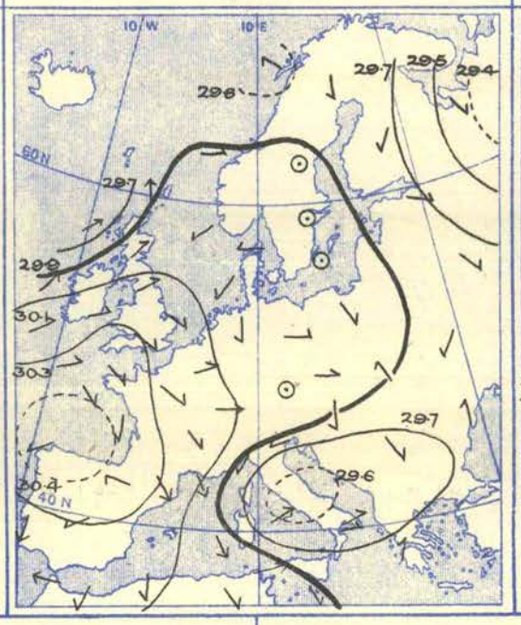
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 9th October, 1904.

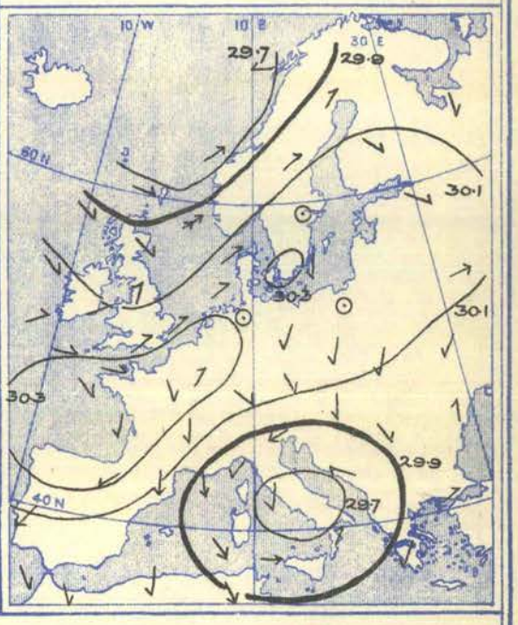
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over the Spanish Peninsula, at various stations in France, Germany, and on the shores of the Baltic; cloudy or overcast elsewhere, with rain in Scotland, Italy, and Hungary. Rain experienced later at most of our own stations and in several parts of central Europe, and very large amounts on some shores of the Mediterranean; 2·3 ins. at La Calle, 1·2 ins. at Malta, and 0·9 in. at Rome.

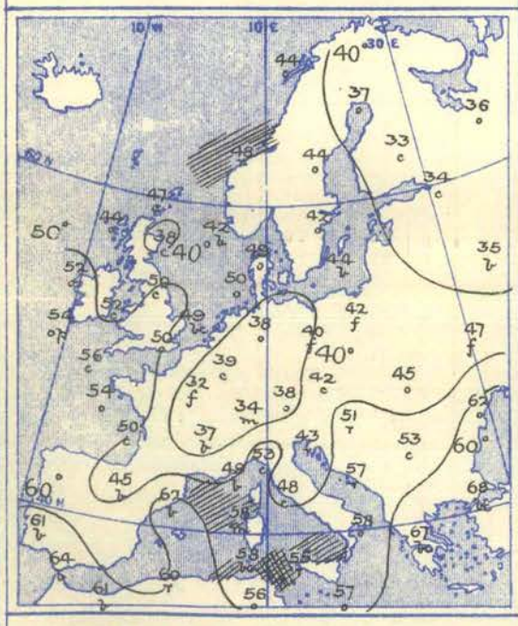
Temperature fallen in most regions—quickly over Italy. Risen over our western and northern districts. Morning readings highest, 77° at Malta, 71° in Greece, and 70° at San Fernando. Lowest, 26° at Haparanda, 29° at Karlstad, 34° at Paris, 38° at Munich, 39° at Warsaw, 40° at Shields and Nottingham, and 42° at Madrid. No higher than 44° at Cape Sicié, and only 52° at Rome. Rising during day to 60° at Nairn and to above 70° at some extreme southern stations, but only touching 63° at Cagliari, 55° at Florence, 50° at Clermont, 48° at Lyons, and 43° at Munich.

Wind at 8 a.m. moderate to strong from South or South-West over all our western and northern districts, and light from West or North-West on our south and south-east coasts. A complete cyclonic circulation, varying in force from a light breeze to a moderate gale, prevailing around Italy, and an anticyclonic movement of light to fresh or strong winds around the Bay of Biscay. Wind veering to the Westward and moderating on our west and north coasts later, but increasing to a gale from the South-Westward in Norway.

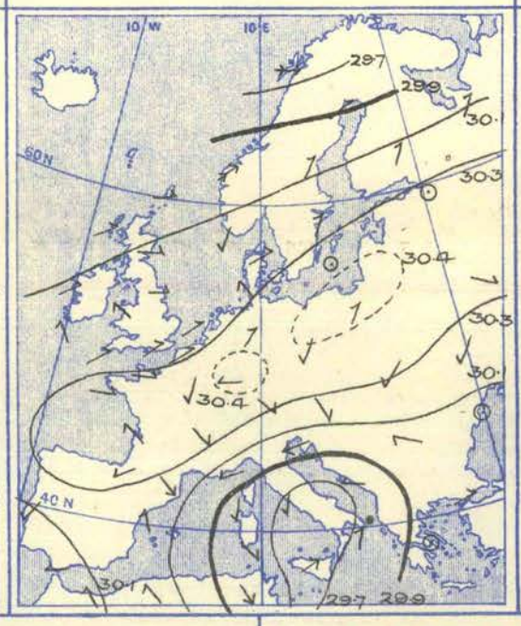
Barometer at 8 a.m. ranging from 30·4 ins. and upwards over the Bay of Biscay to below 29·7 ins. in a depression off the Hebrides, to less than 29·6 ins. in another system over Italy, and to 29·4 ins. at Archangel. Gradients very steep over the south-east of France and its vicinity. Scotch disturbance travelling quickly north-eastwards during day. Barometer rising briskly over central Europe and quickly over the north of Russia. Italian minimum moving slowly southwards.

Monday, 10th October, 1904.

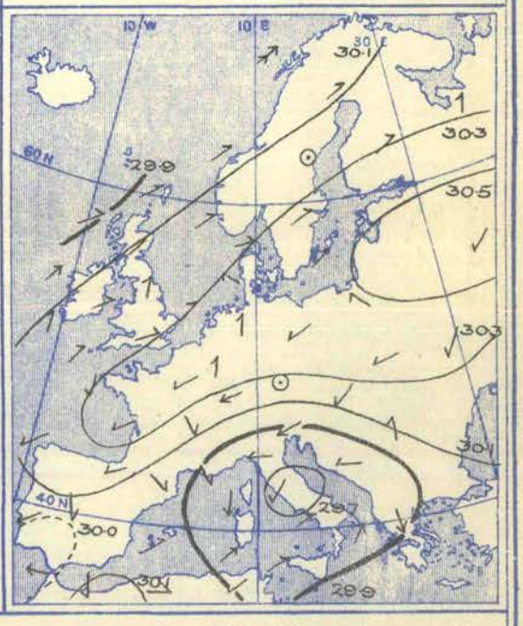
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine over the Spanish Peninsula and the south of France, but cloudy or overcast over our area generally; fog prevailing over Germany and at Copenhagen and Paris, and rain falling at some English stations, at Buda-Pesth, and on several shores of the Mediterranean and Adriatic. Slight rain experienced later in various parts of our Islands, and heavy falls at some Italian and Austria-Hungarian stations and at Skagen—as much as 1·8 ins. at Vienna.

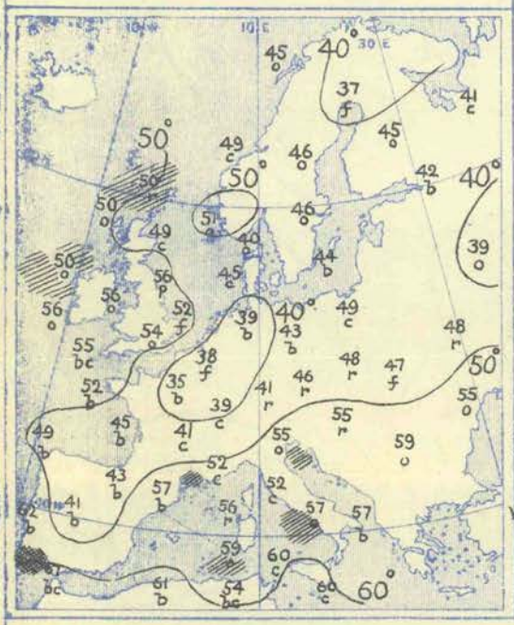
Temperature fallen in many regions, but risen over England and Scandinavia. Readings in morning highest, 68° at Constantinople, 67° at Athens, 64° at San Fernando, and 63° at Oporto. Lowest, (1) 30° at Limoges, 32° at Paris, 33° at Frankfurt, (2) 33° at Kuopio, 34° at St. Petersburg, 35° at Moscow, and 37° at Uleaborg, (3) 48° at Rome. Rising later to 61° at Plymouth and Bettws-y-Coed, to between 70° and 80° at a few of the most southern stations, and to 82° at Patras. Maxima below 60° at most French and Italian stations, and not exceeding 50° at some in central Europe.

Wind at 8 a.m. South-Westerly in almost all the northern regions; light or moderate generally, but blowing a gale on the north-west coast of Norway. Light to moderate Easterly breezes prevailing in most parts of central and southern Europe, but a brisk cyclonic circulation shown around Italy. Little change later.

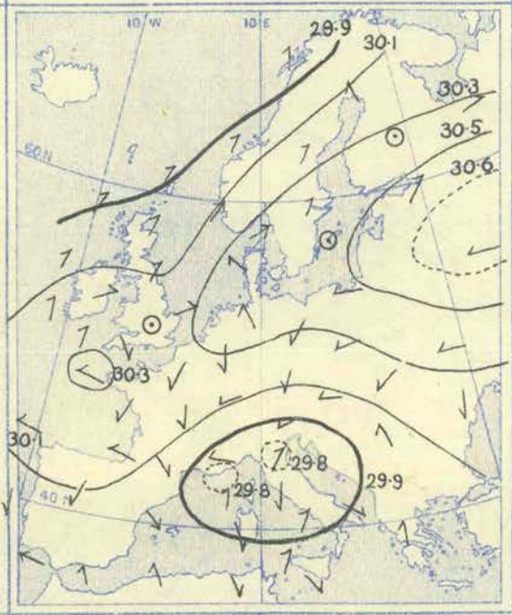
Barometer at 8 a.m. highest, 30·3 ins. to 30·4 ins. and above in a large area extending from the Bay of Biscay across central Russia. Lowest, 29·7 ins. and less (1) in a depression over Lapland, and (2) in another sytem over Italy. A fresh fall of the mercury setting in on our west coasts during day, and a decided rise taking place over Scandinavia, the Baltic, and Finland.

Tuesday, 11th October, 1904.

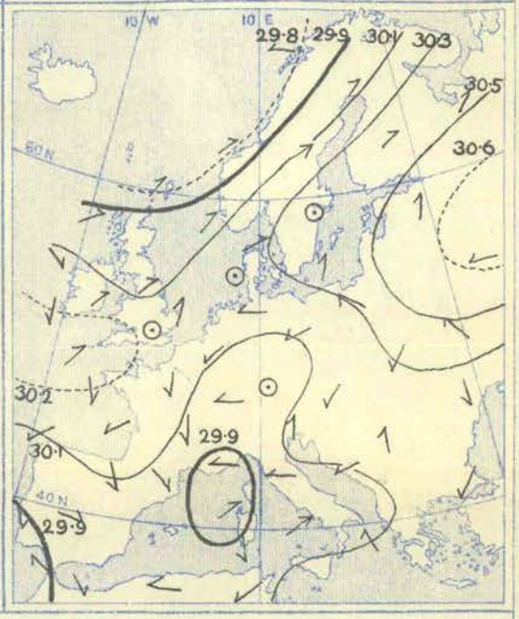
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine over Algeria, the Iberian Peninsula, France, and North Germany; cloudy or overcast elsewhere, with rain at many stations in central Europe and Italy and at a few in our Islands, and fog at Brussels and Yarmouth. Heavy rain experienced later at many Continental stations, and slight amounts in most parts of our area. At Nemours there was as much as 2·6 ins., and at Besançon, 2·5 ins.

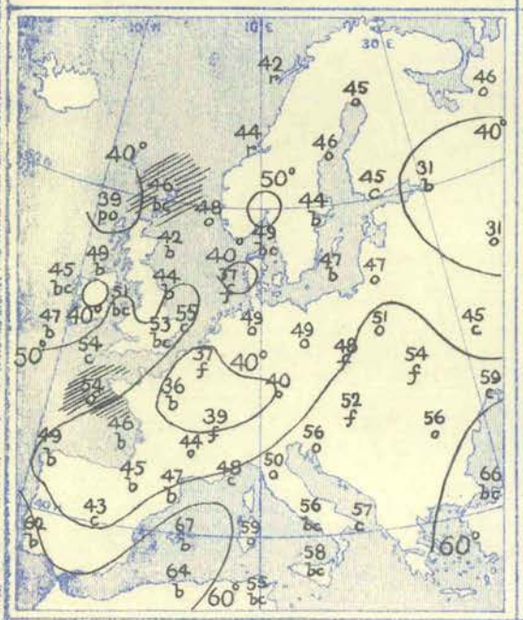
Temperature risen except in Algeria and the west of France. Morning readings highest, 72° at Athens, 67° at San Fernando, and 64° at Oporto. Lowest, (1) 35° at Paris, 36° at Aix-la-Chapelle, 37° at Limoges, (2) 37° at Ulcaborg and 39° at Moscow, (3) 41° at Madrid, (4) 50° at Florence and 52° at Rome. Rising later to 64° at Bournemouth, to about the same level at some French and Italian stations, and to above 70° in the extreme south. Maxima low over the Continent generally—only 45° at Munich and 52° at Vienna and Prague.

Wind at 8 a.m. showing an extensive cyclonic circulation over Italy and southern Europe generally, and light anticyclonic movements over Russia, the Baltic, and the Bay of Biscay. A light or moderate South-Westerly current prevailing over the greater part of the United Kingdom and Scandinavia. No general change taking place later, but wind veering to the Westward on our own western coasts.

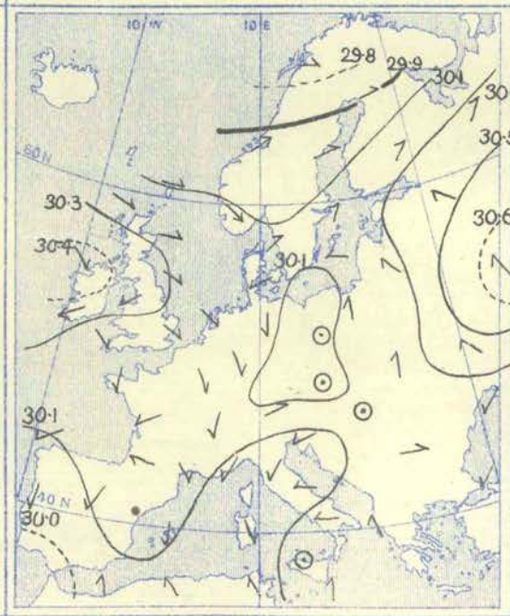
Barometer at 8 a.m. highest, 30·6 ins. and upwards in an anticyclone over central Russia and relatively high in a band extending thence to the Bay of Biscay. Lowest, 29·8 ins. and less in a large depression over the north-western part of the Atlantic, and also in two minima in the south of Europe. A new high pressure area beginning to advance over Ireland by evening, and barometer falling over the Netherlands and Germany.

Wednesday, 12th October, 1904.

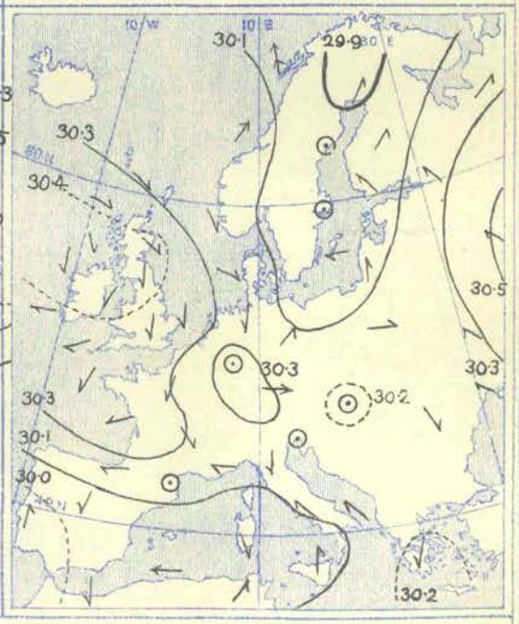
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast in most regions, with showers in the Hebrides and at Pembroke, and rain in Norway, at Aix-la-Chapelle, Swinemünde, Nemours, and in most parts of Italy. Fine in the Spanish Peninsula and many French and British districts. Rain falling later in most Continental regions—heaviest, 0·9 in. at Rome and 2·0 ins. at Berlin. Weather remaining fine in the United Kingdom, France, and the Peninsula.

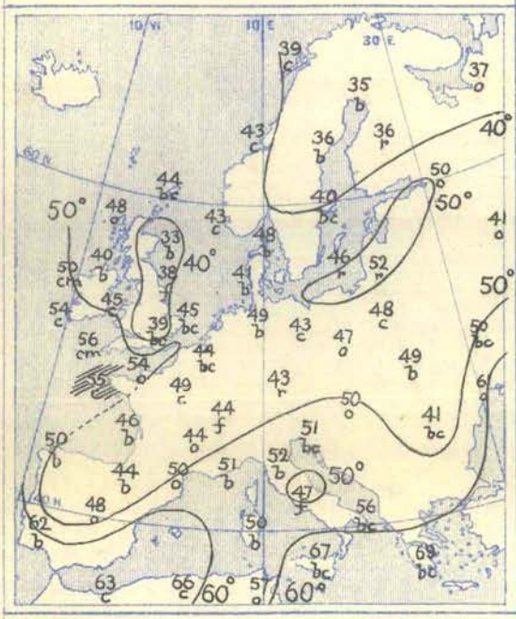
Temperature risen over central Europe, fallen in most other regions—quickly in Ireland and Scotland. Morning readings highest, 68° at Malta, 67° at Palma, 66° at Constantinople. Lowest, (1) 31° at Moscow and St. Petersburg, (2) 35° at Parsonstown, (3) 36° at Paris, 37° at Limoges, (4) 43° at Madrid, 47° at Perpignan, and 49° at Nice. Rising later to 81° at Tunis and to above 70° at a few other southern stations, but maxima very low over the central countries and the north of Italy—only 43° at Munich.

Wind at 8 a.m. mainly anticyclonic in the west and east of our area, and cyclonic elsewhere. Light or moderate in force, but Westerly current strong in Norway. No general change later, but several modifications taking place locally.

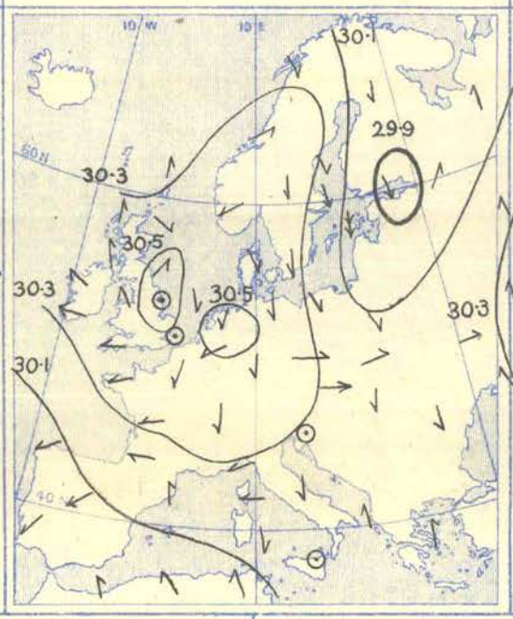
Barometer at 8 a.m. ranging from above 30·6 ins. in an anticyclone over central Russia and 30·4 ins. in Ireland, to below 30·1 ins. in a shallow depression over Germany, to less than 30·0 ins. in the south-west of Spain, and to below 29·8 ins. in Lapland. Irish high pressure area extending quickly eastwards during day, and the depressions in Germany and Lapland forming a "V" shaped system over the Gulf of Bothnia. Russian anticyclone receding eastwards.

Thursday, 13th October, 1904.

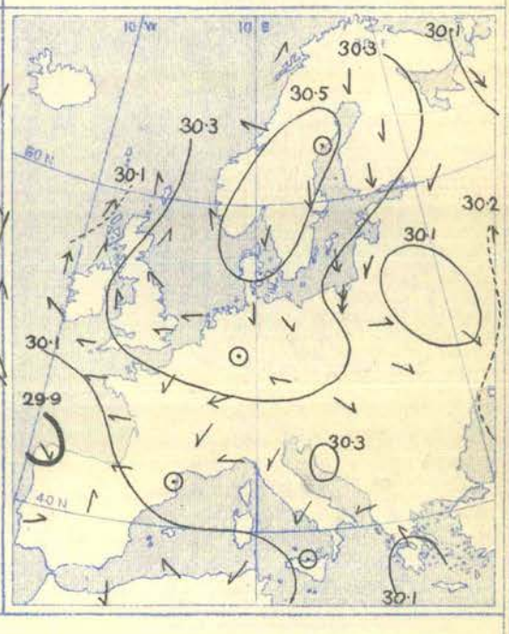
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. fair or fine over our area generally, but with fog in many parts of England. Rain falling at Wisby, in Finland, and at Munich. Very fine as a whole all day, but rain at some North German stations, in Russia, and on some shores of the Mediterranean.

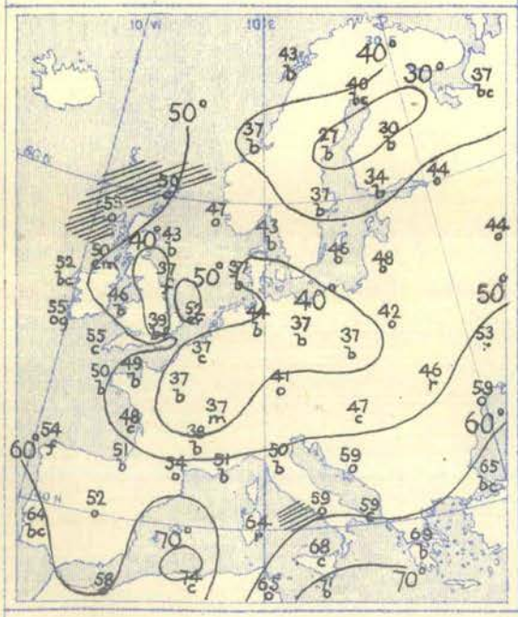
Temperature changed irregularly, fallen quickly over Great Britain. Morning readings highest, 69° at Athens, 66° at Algiers, 63° at Oporto, and 61° at Odessa. Lowest, (1) 30° at Nottingham, 33° at Nairn and Aberdeen, and 35° at Oxford, (2) 35° at Haparanda, 36° at Hernösand and Kuopio, (3) 44° at Biarritz, (4) 47° at Rome. Rising during day to about 60° on our extreme south-west coasts and at Paris; exceeding 70° in the far south, and touching 82° at Sfax.

Wind at 8 a.m. showing an anticyclonic circulation over the western half of our area, and a cyclonic movement around Finland. Not much force generally, but a Northerly gale prevailing in Gothland. Gale extending to East Prussia during day, and wind freshening from the Eastward over the English Channel.

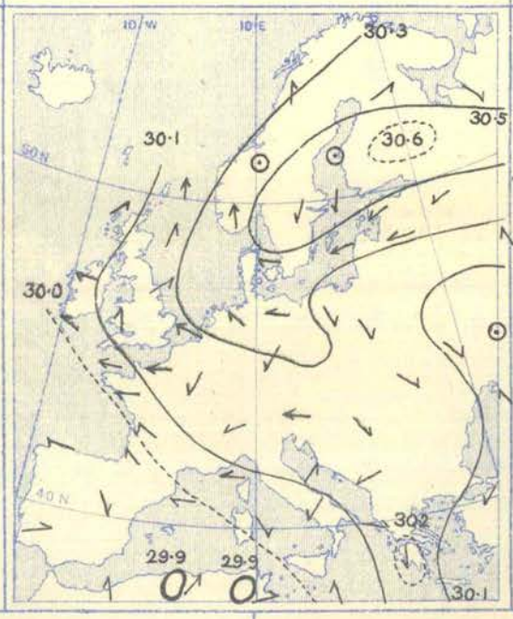
Barometer at 8 a.m. highest, 30·3 ins. to above 30·5 ins. in a large area of high pressure embracing the United Kingdom, the Netherlands, Denmark, and the greater part of France, Germany, and Scandinavia, and 30·4 ins. at Kharkov. Lowest, 29·9 ins. and less in a depression over the Gulf of Finland. Latter system moving southwards during day and pressure increasing quickly in the far north. A depression appearing off the north-west of Spain.

Friday, 14th October, 1904.

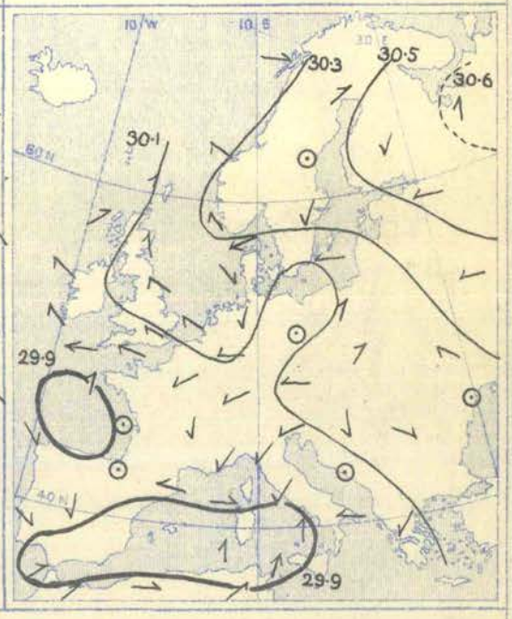
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. fair or fine as a whole, but cloudy or overcast in various localities, and rainy at Lemberg, Kiev, and Cagliari. Fog prevailing at Corunna and in central and north-eastern England. More than half an inch of rain falling later at Naples, 0·7 in. at Brindisi, and 0·5 in. at Kiev and Memel. Little or none elsewhere.

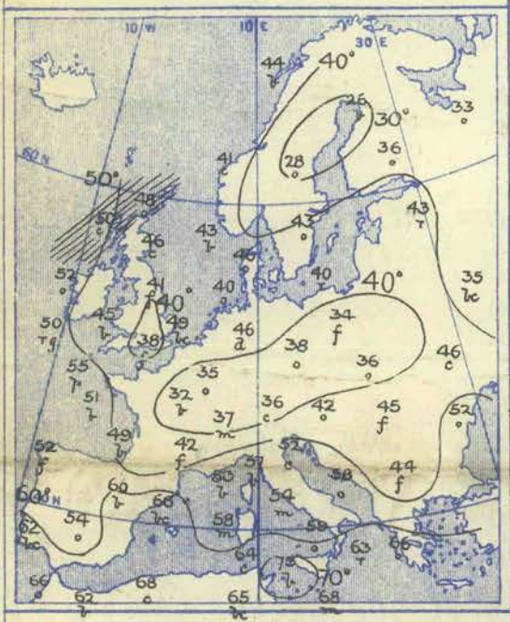
Temperature changed irregularly. Morning readings highest, 74° at Algiers, 71° at Malta, 69° at Athens, and 64° at Lisbon. Lowest, (1) 26° at Uleaborg, 27° at Hernösand, 30° at Kuopio, (2) 35° in central England, (3) 36° to 40° at most stations in the more central parts of Europe, (4) 50° at Florence and 51° at Nice. Rising later to 86° at Tunis, to 78° at Palermo, 77° in Greece, and to above 70° in several southern localities. Maxima low over central Europe—only 46° at Munich and 48° at Vienna.

Wind at 8 a.m. anticyclonic very generally—mainly from between East and North-East, but Southerly in Scotland and Norway. Fresh in force over the English Channel and also in Gothland. No great change later.

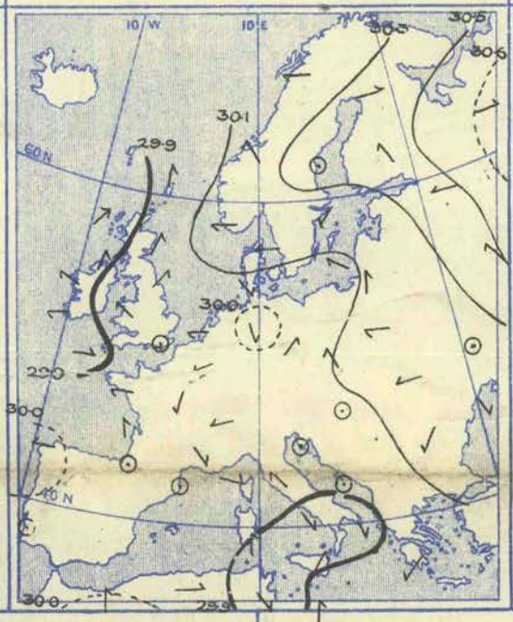
Barometer at 8 a.m. highest, 30·5 ins. to above 30·6 ins. in the central portion of an anticyclone extending from the Skager Rack to the north of Russia. Lowest, 29·9 ins. and less in two small minima over Algeria. Relatively low both in the west and south-east of our area. Depressions appearing later over the Bay of Biscay and Germany. Pressure giving way generally in all the western countries, and increasing in the north of Russia.

Saturday, 15th October, 1904.

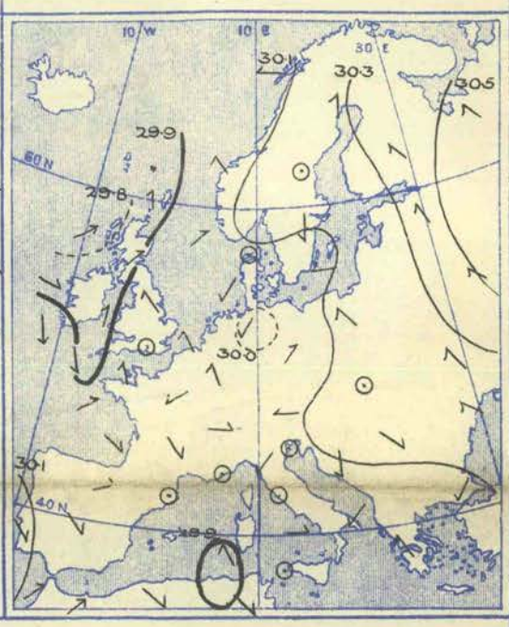
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather at 8 a.m. varying greatly, fair or fine in several localities, but rainy on our south-west coasts, at Brindisi, and over the Gulf of Finland, as well as at some Baltic stations. Rather heavy rain later in Normandy and at some Mediterranean stations—0·9 in. at Cherbourg, and 1·0 in. at Brindisi.

Temperature changed little and irregularly. Morning readings highest, 73° at Palermo, 68° at Algiers, 66° at Patras and San Fernando. Lowest (1) 26° at Uleaborg, 28° at Hernösand, (2) 33° at Nottingham and Oxford, (3) 32° at Paris and Aix-la-Chapelle, (4) 44° at Hermanstadt. Rising later to nearly 60° at some of our own stations, to above 70° on most shores of the Mediterranean, and to 81° at Cagliari and Algiers.

Wind at 8 a.m. Southerly in Scotland and the north of Ireland, but mainly from some Easterly point elsewhere. A cyclonic circulation prevailing over Germany and also over our most south-western coasts. No decided change during day.

Barometer at 8 a.m. ranging from 30·6 ins. in the north of Russia to 29·9 ins. and less over the Bristol Channel and on our most western coasts, and also over Italy and Tunis. Below 30·0 ins. in a small minimum over the north-west of Germany. Low pressure in the west of our Islands forming a shallow "V" shaped disturbance during day, but little modification occurring in the general distribution of pressure. Barometer rising decidedly on the south-west coast of Ireland.

IV.—GENERAL NOTES, etc.

During the earlier half of the week a large high pressure area stretched from the Bay of Biscay to central Russia, while depressions travelled eastwards across Scandinavia and others appeared over the central portion of the Mediterranean and Italy. The general direction of the wind was consequently South-Westerly and Westerly over the northern countries and mainly Easterly or North-Easterly in the south. Strong winds or slight gales were reported from various parts of the Mediterranean, and the baric gradients were sometimes very steep in that region. After the middle of the week an anticyclone travelled eastwards across the more northern countries to the north of Russia and the cyclonic systems over southern Europe became much less deep. A shallow disturbance, however, advanced northwards over the Bay of Biscay, while larger depressions in the Atlantic began to affect our north-western and northern coasts. Temperature changed considerably and often; it was generally very low for the time of year in Italy and its immediate vicinity, while frost occurred in central England, Sweden, and in several parts of central Europe. Rain was most plentiful during the earlier days of the period when large amounts again fell in Italy and also in different parts of Algeria. Very little rain was experienced over the United Kingdom, where the weather was mostly fair or fine, but falls of rain were frequent in most parts of northern Europe.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 242.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	23·5	+ 4·5	33	+ 6
STRATHPEFFER SPA	16·9	- 4·7	23	- 6
CRATHES	35·0	—	38	—
BALRUDDERY	19·4	—	27	—
EDINBURGH	26·4	+ 7·4	36	+ 10
COCKLE PARK	35·6	—	48	—
NEWCASTLE-on-TYNE	23·5	—	32	—
YORK	26·5	+ 6·1	35	+ 8
SKEGNESS	35·1	—	47	—
CROMER	30·6	—	41	—
LOWESTOFT	38·3	—	51	—
DUNMOW	28·3	—	38	—
SHEFFIELD	21·7	—	29	—
WORKSOP	28·9	+ 8·9	39	+ 12
THURCASTON	29·8	+ 8·8	40	+ 12
MARGATE	31·3	+ 5·7	42	+ 8
BROADSTAIRS	35·1	—	47	—
RAMSGATE	35·3	—	47	—
EASTBOURNE	34·6	+ 6·0	46	+ 8
BRIGHTON	33·7	+ 4·3	45	+ 6
WORTHING	33·5	—	45	—
BOGNOR	36·0†	—	48†	—
WESTBOURNE	32·7†	+ 5·1	44†	+ 7
VENTNOR HOSPITAL	30·7	+ 1·1	41	+ 1
BOURNEMOUTH	35·1	—	47	—
MARLBOROUGH	27·1	+ 3·5	36	+ 5
SOUTHPORT	35·5	—	47	—
RHYL	—	—	—	—
ABERDOVEY	36·0†	—	48†	—
TENBY	13·7	- 11·8	18	- 16
TORQUAY	25·8	- 0·7	34	- 1
NEWQUAY	27·0	0·0	36	0
GUERNSEY	35·0†	+ 6·6	46†	+ 9

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees) Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 24, page 140	Nottingham	—	—	—	—	—	—	—	—	—	—	—	44·2	—	—	—
" " "	Shrewsbury	—	—	64·3	50·7	57·0	- 0·6	105	—	—	—	—	—	—	—	—
" " "	Laudale	—	—	62·0	—	—	—	—	—	—	—	—	—	—	—	—
" " "	Jersey	—	—	—	—	—	—	—	—	—	—	—	58·4	+ 0·8	—	—
No. 25, page 146	Scarborough	—	—	—	49·7	56·2	- 0·2	99	—	—	—	—	—	—	—	—
No. 26, page 152	Glencarron	—	—	64·2	46·8	54·9	+ 0·8	90	—	—	—	—	—	—	—	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

PUBLISHED BY EYRE AND SPOTTISWOODE, EAST HARDING STREET, FLEET STREET, E.C., AND 32, ABINGDON STREET, WESTMINSTER, S.W.; OR OLIVER AND BOYD, EDINBURGH; OR E. PONSONBY, 116, GRAFTON STREET, DUBLIN.

TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 42. FORTY-SECOND WEEK, ENDING SATURDAY, OCTOBER 22ND, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS (See p. 248.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	62	39	54·3	44·7	49·4	4 above	52	+20	0	−10	1933	+ 57	490*	− 95
	1. SCOTLAND, EAST	61	29	56·6	43·8	50·0	5 above	56	+22	0	−12	2107	−114	604	− 27
	2. ENGLAND, N.E.	66	30	59·4	47·4	53·2	6 above	78	+38	0	− 6	2578	+156	439	− 68
	3. ENGLAND, EAST	69	27	60·5	48·3	54·2	6 above	85	+39	0	− 8	2871	+ 64	404	−155
	4. MIDLAND COUNTIES	69	31	59·7	48·0	53·7	7 above	82	+40	0	−10	2652	−100	483	− 96
	5. ENGLAND, SOUTH	69	30	59·7	50·1	54·8	6 above	90	+35	0	− 4	2941	−128	345	− 65
Principal Grazing Districts.	6. SCOTLAND, WEST	62	41	56·2	48·6	52·3	5 above	72	+33	0	− 7	2317	− 38	378	− 60
	7. ENGLAND, N.W.	67	38	58·4	50·0	54·1	6 above	85	+41	0	− 4	2542	− 46	388	− 23
	8. ENGLAND, S.W.	62	38	58·3	50·2	54·1	5 above	85	+31	0	− 3	2397	+ 31	252	− 62
	9. IRELAND, NORTH	63	41	56·9	48·0	52·4	5 above	73	+31	0	− 6	2350	−140	338	− 35
	10. IRELAND SOUTH	68	37	59·9	50·0	54·8	6 above	90	+40	0	− 4	2780	− 45	232	− 37
	— CHANNEL ISLANDS	62	48	60·0	54·1	57·0	4 above	105	+30	0	0	3364	+ 43	80	− 41

Rainfall.

	DISTRICTS. (See p. 248.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	8	4 less	196	+17	41·2	+ 3·8
	1. SCOTLAND, EAST	3	1	5 less	163	+ 8	22·1	− 2·4
	2. ENGLAND, N.E.	3	1	5 less	134	− 7	17·1	− 2·6
	3. ENGLAND, EAST	4	5	2 less	131	−11	16·4	− 2·7
	4. MIDLAND COUNTIES	3	2	4 less	141	+ 5	20·0	− 1·8
	5. ENGLAND, SOUTH	4	5	2 less	146	+13	21·7	− 0·1
Principal Grazing Districts.	6. SCOTLAND, WEST	5	12	1 more	167	+ 7	39·7	+ 1·6
	7. ENGLAND, N.W.	4	10	1 more	158	+ 8	25·1	− 1·9
	8. ENGLAND, S.W.	5	10	0 (average)	160	+ 9	30·7	+ 1·7
	9. IRELAND, NORTH	6	9	1 more	201	+20	31·2	+ 2·9
	10. IRELAND, SOUTH	6	11	2 more	180	+17	33·2	+ 2·1
	— CHANNEL ISLANDS	7	5	5 less	184	+30	29·1	+ 4·7

Bright Sunshine.

	DISTRICTS. (See p. 248.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	15	− 3	21	− 4	1105	+ 60	28	+ 2
	1. SCOTLAND, EAST	23	+ 3	33	+ 5	1157	− 40	30	− 1
	2. ENGLAND, N.E.	16	− 5	23	− 7	1312	− 19	34	− 1
	3. ENGLAND, EAST	19	− 4	26	− 5	1513	+ 32	40	+ 1
	4. MIDLAND COUNTIES	15	− 7	21	−10	1280	+ 39	33	+ 1
	5. ENGLAND, SOUTH	11	−13	15	−18	1483	+ 23	39	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	13	− 5	19	− 7	1225	− 36	32	− 1
	7. ENGLAND, N.W.	13	− 6	18	− 9	1328	+115	35	+ 3
	8. ENGLAND, S.W.	9	−14	12	−20	1408	− 97	37	− 3
	9. IRELAND, NORTH	10	−10	14	−14	1141	− 12	30	0
	10. IRELAND, SOUTH	8	−15	12	−21	1310	− 3	34	0
	— CHANNEL ISLANDS	14	−12	20	−16	1658	− 72	44	− 2

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was mild and dull generally, with a very humid atmosphere and much fog or mist. Rain fell frequently in Ireland and the western half of Great Britain and also in the Channel Islands, but the amounts were not, as a rule, large.

Temperature was considerably above the mean, the excess ranging from 4° in Scotland N. and the Channel Islands to 6° in many other districts, and to 7° in the Midland Counties. The highest of the maxima were registered on the 18th at most stations, and ranged from 69° in England E. and S. and the Midland Counties to 61° in Scotland E. The lowest of the minima, which were recorded on the 16th, ranged from 27° in England E. and 29° in Scotland E. to 41° in Scotland W. and Ireland N., and to 48° in the Channel Islands. Most of the nights were very mild, the thermometer remaining above 50° even at inland stations.

Rainfall slightly exceeded the mean in England N.W., Scotland W., and over Ireland, and just equalled it in England S.W., but was less in all other districts. In the Midland Counties, Scotland E., and England N.E. the fall was very slight.

Bright Sunshine was deficient in all districts except Scotland E. The percentage of the possible duration was only 12 in Ireland S. and England S.W., 14 in Ireland N., and 15 in England S., while elsewhere it ranged from 18 in England N.W. to 26 in England E., and to 33 in Scotland E.

Barometer and Wind. During the earlier days of the period a large and deep depression having its centre outside our coasts moved north-eastwards to northern Europe and caused strong winds or gales from between South and West on all parts of our coasts. This system was succeeded by an anticyclone which spread over our Islands from the southward and passed slowly to central Europe. Towards the end of the week some secondary disturbances advanced over the country from the westward and south-westward, while their primary system remained outside our western and north-western coasts. This condition brought Southerly to South-Westerly and Westerly winds to the Kingdom generally, light as a whole, but fresh or strong on the extreme north-western coasts.

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II.—DATA from which the SUMMARY on page 247 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
O. SCOTLAND, N.	Sumburgh Head	53	40	51·7	46·1	48·8	+ 3·5	48	0	6	0·93	− 0·07	*	*	*	*
	Stornoway	58	40	54·9	45·9	50·3	+ 5·3	58	0	6	1·45	+ 0·25	11·5	− 7·1	17	− 11
	Wick	62	39	55·9	44·6	50·1	+ 4·6	57	0	4	0·27	− 0·42	*	*	*	*
	Lairg Ⓢ	57	39	53·5	42·3	47·7	+ 4·3	40	0	5	0·57	− 0·31	*	*	*	*
	Glencarron Ⓢ	58	39	53·8	44·4	49·0	+ 4·5	49	0	6	1·06	− 0·07	*	*	*	*
	Fort Augustus Ⓢ	60	39	56·1	44·7	50·2	+ 4·1	57	0	4	0·22	− 0·72	12·0	− 1·0	17	− 1
	Fort William	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1. SCOTLAND, E.	Nairn	61	39	56·1	43·6	49·7	+ 4·4	54	0	4	0·19	− 0·35	*	*	*	*
	Aberdeen	61	40	56·9	43·9	50·2	+ 4·0	57	0	2	0·15	− 0·52	26·4	+ 4·9	38	+ 7
	Braemar Ⓢ	57	29	52·9	40·9	46·7	+ 4·2	38	3	3	0·15	− 0·74	*	*	*	*
	Ochtertyre Ⓢ	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Leith	61	40	59·1	47·1	52·9	+ 5·5	76	0	2	0·03	− 0·43	*	*	*	*
	Marchmont Ⓢ	59	38	57·9	43·3	50·4	+ 5·3	59	0	3	0·15	− 0·65	21·7	+ 3·1	31	+ 4
2. ENGLAND, N.E.	Alnwick Castle	62	36	59·9	45·6	52·5	+ 6·0	74	0	3	0·10	− 0·64	*	*	*	*
	Durham	63	34	57·6	46·8	52·0	+ 5·7	70	0	3	0·19	− 0·50	16·5	− 2·9	23	− 5
	Shields	64	35	59·7	46·4	52·9	+ 5·7	76	0	2	0·11	− 0·51	*	*	*	*
	Scarborough Ⓜ	64	37	60·1	48·2	54·0	+ 6·1	84	0	3	0·11	− 0·62	12·9	—	18	—
	Spurn Head	62	42	57·7	49·1	53·3	+ 4·5	79	0	2	0·16	− 0·38	*	*	*	*
	Lincoln	64	30	60·3	47·6	53·8	+ 6·2	83	0	3	0·10	− 0·44	*	*	*	*
	Fulbeck (Lincolnshire)	66	35	60·6	48·0	54·1	+ 7·3	85	0	3	0·10	− 0·44	17·9	—	25	—
3. ENGLAND, E.	Hillington Ⓜ	67	30	60·6	45·0	52·6	+ 5·0	74	0	4	0·69	+ 0·06	17·5	− 3·7	25	− 5
	Yarmouth	64	43	58·0	50·3	54·0	+ 5·1	84	0	4	0·34	− 0·31	*	*	*	*
	Geldeston	67	27	61·6	45·2	53·2	+ 4·5	78	0	4	0·41	− 0·19	17·7	− 6·7	25	− 10
	Cambridge	68	30	61·9	45·8	53·6	+ 5·7	81	0	3	0·49	− 0·05	24·2	+ 0·8	34	+ 1
	Felixstowe	67	45	59·6	51·1	55·2	+ 6·6	92	0	4	0·39	—	23·8	—	33	—
	Clacton-on-Sea	69	48	60·4	51·6	55·9	+ 7·2	97	0	5	0·38	—	21·4†	—	30†	—
	Rothamsted	66	32	60·6	46·3	53·2	+ 6·0	78	0	6	0·63	− 0·04	17·7	− 6·0	25	− 8
	Shoeburyness	69	46	61·6	51·0	56·1	+ 7·1	99	0	4	0·27	− 0·25	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	63	33	59·8	47·4	53·4	+ 7·2	80	0	5	0·26	− 0·49	14·5	—	20	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	66	31	61·0	46·0	53·3	+ 5·9	79	0	1	0·16	− 0·40	19·3	—	27	—
	Colly Weston (Stamford)	67	32	60·1	46·9	53·3	+ 5·7	79	0	3	0·18	− 0·42	*	*	*	*
	Cheadle Ⓜ	63	39	57·7	48·8	53·1	+ 7·0	78	0	3	0·66	− 0·10	*	*	*	*
	Birmingham (Edgbaston)	66	42	58·3	49·5	53·8	+ 6·4	83	0	2	0·17	− 0·47	12·9	—	18	—
	Shrewsbury	67	42	61·0	50·7	55·7	+ 8·2	96	0	1	0·01	—	*	*	*	*
	Hereford Ⓜ	69	35	61·5	47·9	54·5	+ 7·0	88	0	3	0·24	− 0·39	*	*	*	*
	Cirencester	65	38	58·6	46·9	52·6	+ 5·9	74	0	4	0·24	− 0·48	13·1	− 9·2	18	− 13
	Oxford	67	33	59·7	47·9	53·6	+ 5·5	81	0	3	0·28	− 0·31	14·1	− 8·2	20	− 11
5. ENGLAND, S.	London	66	37	60·6	49·0	54·6	+ 5·5	88	0	4	0·61	+ 0·02	5·9‡	− 10·9‡	8‡	− 15‡
	Wisley (Surrey)	66	30	60·5	47·8	54·0	+ 4·4	84	0	4	0·62	—	8·7	—	12	—
	Swarraton (Alresford) Ⓜ	63	40	59·2	47·7	53·3	+ 6·1	79	0	4	0·58	− 0·19	*	*	*	*
	Tunbridge Wells Ⓜ	65	36	60·3	47·6	53·8	+ 5·7	83	0	4	0·44	—	10·3	—	14	—
	Dungeness	62	46	59·1	52·0	55·5	+ 5·0	95	0	5	0·33	− 0·40	9·2	—	13	—
	Hastings (St. Leonards)	65	43	60·2	52·7	56·3	+ 5·9	100	0	4	0·33	− 0·51	9·8	− 16·8	14	− 23
	Southampton	69	46	61·6	52·1	56·7	+ 6·6	103	0	4	0·43	− 0·34	11·6	− 13·2	16	− 18
	Portland Bill	61	48	59·1	52·9	55·9	+ 5·7	97	0	4	0·39	—	*	*	*	*
	Shaftesbury Ⓜ	62	42	57·1	49·3	53·1	+ 5·8	78	0	5	1·02	+ 0·17	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	60	46	56·1	48·6	52·2	+ 5·1	71	0	6	2·54	+ 0·88	*	*	*	*
	Glasgow	58	42	55·3	48·1	51·6	+ 5·5	67	0	5	0·30	− 0·54	15·0	+ 0·3	21	0
	Cally Ⓢ	57	41	55·9	45·8	50·7	+ 4·1	61	0	6	1·12	+ 0·03	*	*	*	*
	Aspatria	59	44	56·8	49·6	53·1	+ 6·5	78	0	3	1·02	—	11·6	—	16	—
	Douglas (Isle of Man)	62	46	56·9	50·7	53·7	+ 5·8	82	0	5	1·03	+ 0·02	12·8	− 9·7	18	− 14
7. ENGLAND, N.W.	Newton Rigg	59	38	55·9	46·9	51·3	+ 5·6	65	0	4	0·38	—	12·3	—	17	—
	Stonyhurst	59	40	56·2	49·4	52·7	+ 6·0	75	0	4	2·04	+ 0·91	9·1	− 10·1	13	− 14
	Blackpool Ⓜ	58	42	56·9	49·9	53·3	+ 5·0	79	0	5	1·41	+ 0·47	9·9	− 9·5	14	− 13
	Manchester (Prestwich)	60	42	57·2	50·2	53·6	+ 6·4	81	0	5	1·09	+ 0·17	6·5	—	9	—
	Liverpool Obsy. (Bidston)	61	40	59·1	49·9	54·4	+ 5·8	87	0	4	0·50	− 0·27	15·1	—	21	—
	Chester (Hawarden Bridge)	66	39	62·1	50·6	56·2	+ 7·1	99	0	3	0·27	—	*	*	*	*
	Llandudno Ⓜ	64	47	59·7	52·5	56·0	+ 6·2	98	0	3	0·50	− 0·40	19·9	+ 1·0	28	+ 1
	Holyhead	62	42	57·9	50·7	54·2	+ 3·9	85	0	4	0·80	− 0·17	*	*	*	*
	Bettws-y-Coed	67	41	60·5	49·6	54·9	+ 6·0	90	0	4	2·21	—	18·5	—	26	—
8. ENGLAND, S.W.	Llangammarch Wells	62	39	58·4	48·1	53·1	+ 7·3	78	0	3	1·81	—	10·3	—	14	—
	Pembroke	60	47	57·9	52·0	54·9	+ 4·0	90	0	7	0·74	− 0·20	7·9	− 14·8	11	− 21
	Cardiff	60	41	58·5	49·4	53·8	+ 4·3	83	0	6	1·43	—	*	*	*	*
	Clifton	60	42	56·1	50·6	53·3	+ 4·8	79	0	3	0·52	− 0·33	*	*	*	*
	Bath	61	38	59·4	49·4	54·3	+ 5·7	86	0	3	0·19	− 0·51	5·7	—	8	—
	Arlington (N. Devon)	58	43	57·0	48·4	52·6	+ 4·1	74	0	5	2·46	+ 1·07	*	*	*	*
	Cullompton Ⓜ	62	42	59·7	49·8	54·6	+ 6·8	88	0	6	0·50	− 0·37	5·7	− 15·4	8	− 21
	Falmouth	60	46	58·4	52·2	55·2	+ 3·9	92	0	5	0·41	− 0·79	12·5	− 13·2	17	− 18
	Plymouth	61	43	58·9	51·6	55·1	+ 4·5	92	0	4	0·51	− 0·34	9·4	− 14·0	13	− 20
9. IRELAND, N.	Malin Head	59	42	55·3	47·1	51·1	+ 2·6	64	0	5	0·57	− 0·11	*	*	*	*
	Edenfel (Omagh)	60	41	56·9	47·6	52·1	+ 6·7	71	0	6	1·33	+ 0·47	*	*	*	*
	Blacksod Point	59	43	56·9	50·0	53·4	+ 3·9	80	0	7	1·63	+ 0·46	*	*	*	*
	Markree Castle	62	42	57·8	48·2	52·9	+ 6·3	76	0	6	1·25	+ 0·29	6·3	− 13·3	9	− 19
	Armagh	63	42	58·1	47·6	52·7	+ 6·2	75	0	4	0·48	− 0·17	14·0	− 5·9	20	− 8
	Donaghadee	59	42	56·6	47·7	52·0	+ 4·0	70	0	6	0·39	− 0·32	*	*	*	*
10. IRELAND, S	Dublin	64	45	60·2	51·3	55·6	+ 6·8	95	0	5	0·29	− 0·36	10·1	− 14·3	14	− 20
	Birr Castle	65	39	59·3	47·6	53·3	+ 6·4	79	0	6	1·50	+ 0·83	7·2	− 14·6	10	− 21
	Kilkenny	64	37	60·0	48·9	54·3	+ 6·5	86	0	6	0·61	− 0·09	*	*	*	*
	Waterford	68	40	61·7	48·3	54·8	+ 6·2	90	0	4	0·93	+ 0·05	*	*	*	*
	Roche's Point	61	46	58·3	51·4	54·8	+ 4·3	90	0	6	1·17	+ 0·22	*	*	*	*
	Valencia	60	46	58·6	51·7	55·1	+ 4·3	92	0	7	2·02	+ 0·75	7·3	− 15·3	10	− 21
	Killarney	67	45	60·9	51·1	55·9	+ 6·4	97	0	6	0·96	− 0·34	*	*	*	*
	Foynes	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	62	51	59·9	54·3	57·0	+ 3·8	105	0	6	0·35	− 0·51	13·3	− 11·9	19	− 17
	Jersey	62	48	60·1	53·9	56·9	+ 3·8	104	0	7	0·61	− 0·40	10·5	− 17·8	14	− 25

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

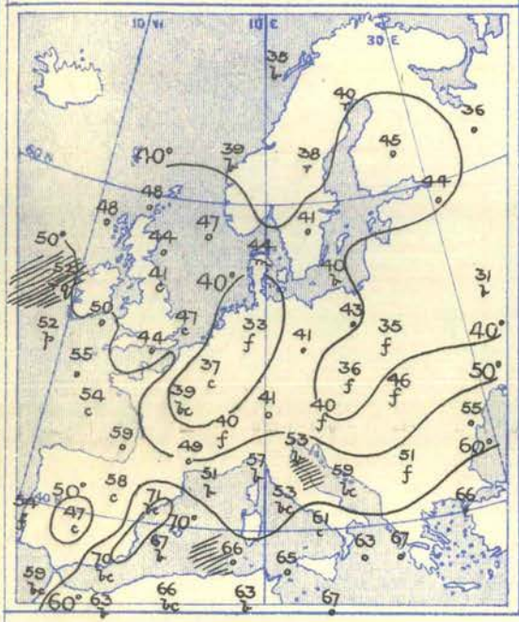
† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 33 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

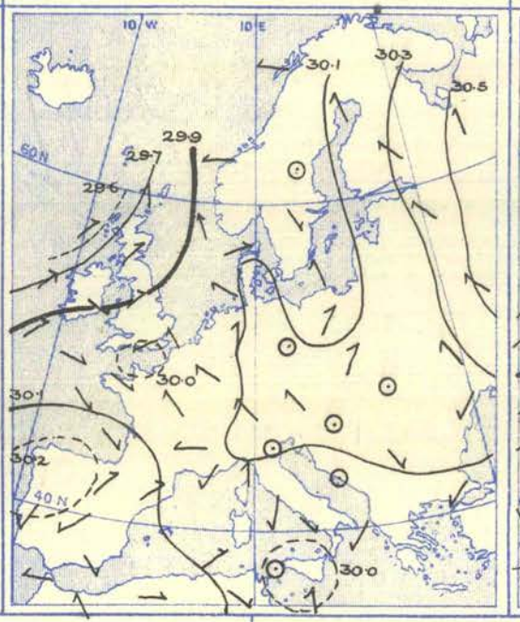
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 16th October, 1904.

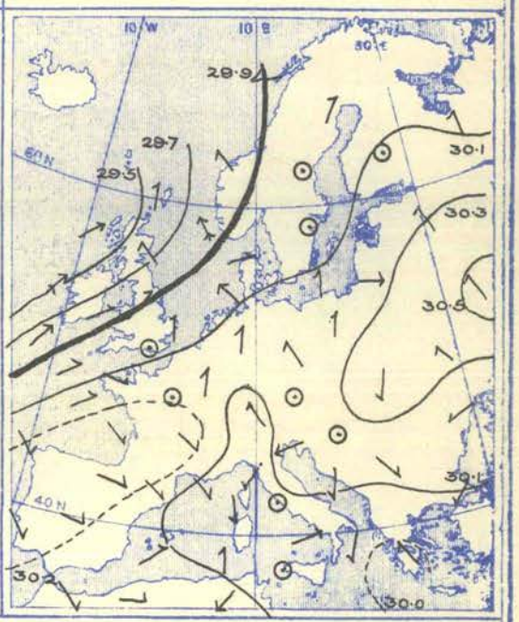
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. fair or fine in several places, but cloudy or overcast as a whole, and rainy on our extreme west and north-west coasts, in the north of Sweden, and at Limoges, and foggy over central Europe and at Lisbon. Rain falling later throughout our Islands and in many parts of northern Europe, and also at Malta and Athens—heaviest amount, 1·2 ins. at Valencia.

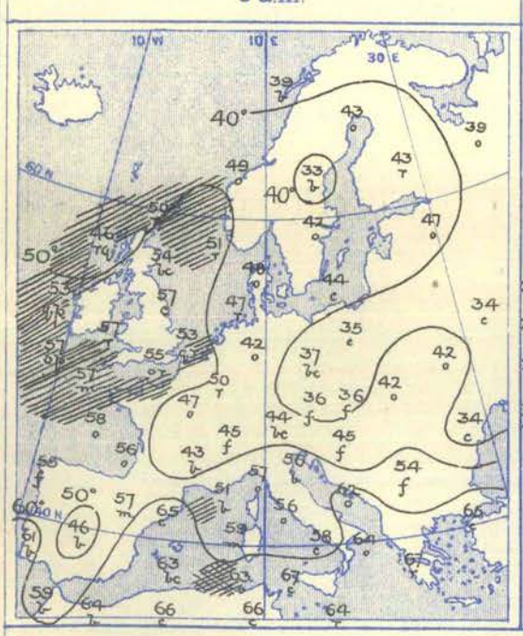
Temperature changed very irregularly. Morning readings highest, 71° at Barcelona and a few degrees below 70° at several other stations in the far south. Lowest, (1) 31° at Moscow, 36° at Archangel, (2) 35° at Bodö, (3) 33° at Frankfurt, 34° at Prague, (4) 39° at Nottingham. Rising to 60° later at Pembroke and to above 70° in various parts of Spain, Italy, Greece, and Algeria. Highest value, 81° at Sfax Maxima low over the central countries.

Wind at 8 a.m. light and variable as a whole, but Southerly or South-Easterly in Russia, light to fresh from the Southward or South-Westward over the greater part of our Islands, and anticyclonic around the Bay of Biscay. Southerly winds increasing to a gale later on our own western coasts and also on the west coast of Norway.

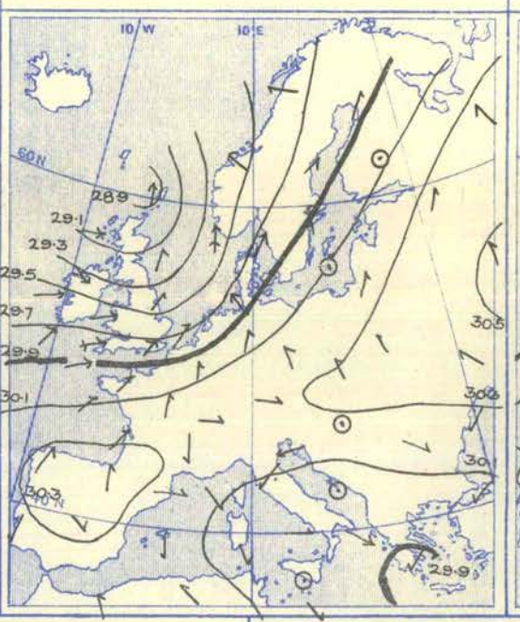
Barometer at 8 a.m. ranging from above 30·5 ins. in an anticyclone having its centre over Russia and 30·2 ins. over the north of Spain, to less than 30·0 ins. in a shallow depression over Sicily and in another over the English Channel, and to below 29·6 ins. in a large system off the west of Scotland. Barometer falling briskly during day all along our west and north-west coasts, and gradients increasing quickly over the whole Kingdom.

Monday, 17th October, 1904.

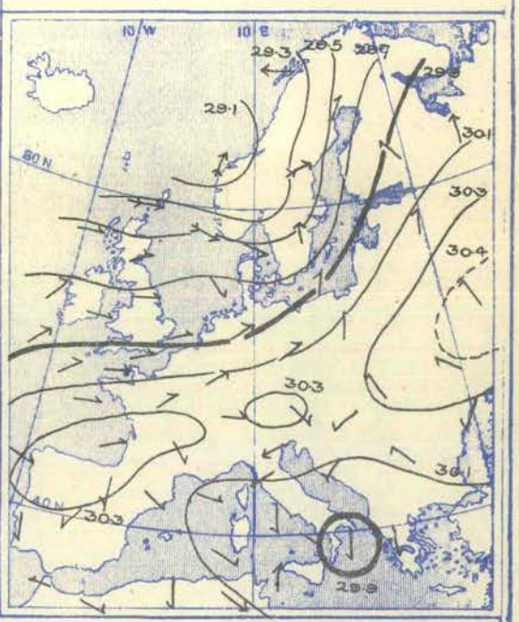
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. dull and unsettled as a whole, but fine in the Spanish Peninsula. Rain falling in many parts of our Islands and many parts of northern Europe, as well as at Malta. Fog prevailing at some stations in central Europe and at Corunna. Rain later in most regions except the Iberian Peninsula and Austria-Hungary.

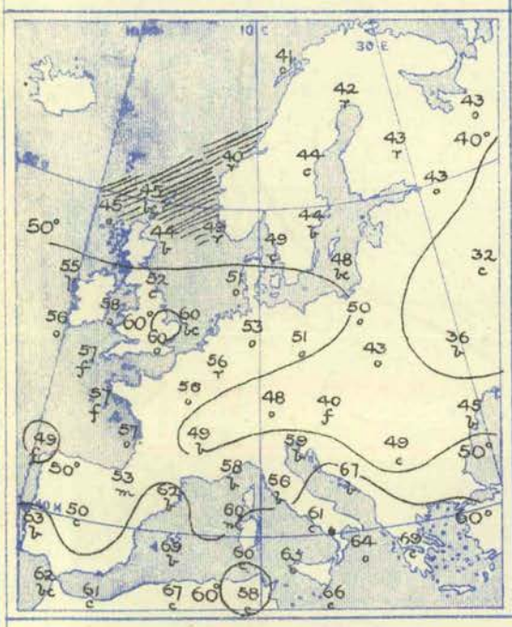
Temperature risen generally, but fallen in the central countries and the south of Russia. Morning readings highest, 68° at Palma and Patras, 67° at Malta, and 66° at La Calle. Lowest, (1) 29° at Warsaw, (2) 33° at Hernösand, (3) 34° at Moscow, Kharkov, and Odessa, (4) 43° at Lyons, and 46° at Madrid. Rising during day to 66° at Nottingham, and to above 70° on various shores of the Mediterranean and at Lisbon. Thermometer not touching 60° in most parts of central Europe and at Paris, and only rising to 62° at Rome. Subsequent night very warm over the United Kingdom.

Wind at 8 a.m. Westerly to South-Westerly over our Islands, Southerly on the eastern shores of the North Sea, and Easterly in the north of Norway. Fresh or strong in force generally, with a gale at some of our own stations and in the south-west of Norway. Light and anticyclonic over Russia and the Spanish Peninsula, and irregularly cyclonic over Italy and the Mediterranean. Gale extending to most northern regions by evening. Wind veering and decreasing in force on most of our own coasts.

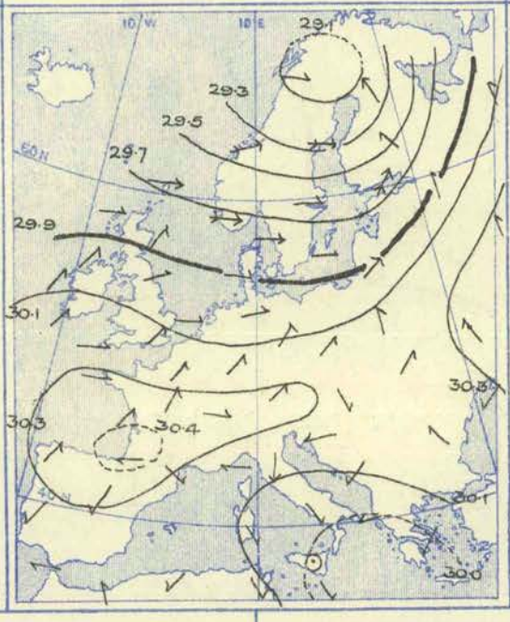
Barometer at 8 a.m. highest, 30·5 ins. in an anticyclone centred over Russia and above 30·3 ins. in another system off the north of Spain and its vicinity. Lowest, 28·9 ins. and less in a large and deep depression having its centre near the Shetlands; below 29·9 ins. over Greece and the Ionian Sea. Northern disturbance travelling rather quickly north-eastwards during day, and a very brisk rise of the mercury taking place on our northern coasts. Southern depression moving north-westwards.

Tuesday, 18th October, 1904.

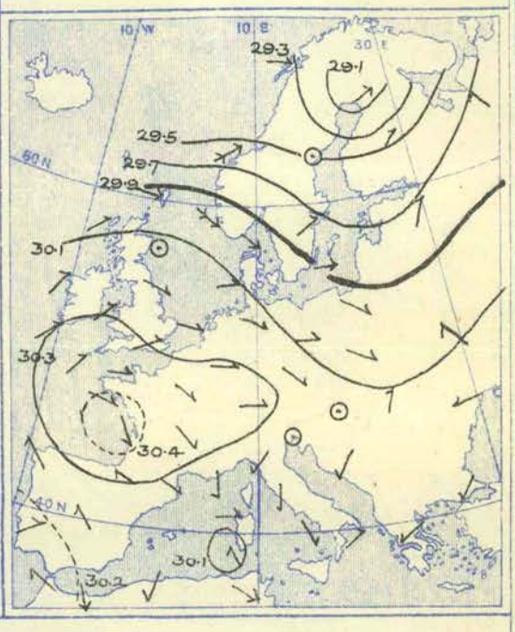
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



6 p.m.



Weather at 8 a.m. fine and bright in several parts of southern Europe and the south of Sweden; cloudy or overcast generally, with rain in the west of Norway and in Belgium, and showers at some of our western stations. Some rain falling later in the north and centre of Europe, and a thick wet fog setting in over England.

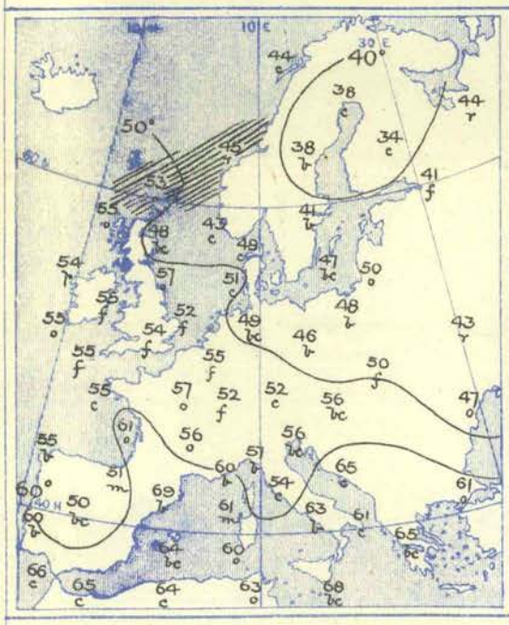
Temperature risen as a whole, but fallen in Scotland and Algeria. Morning readings ranging from 70° at Barcelona and 69° at Athens, to 60° in central and south-eastern England, to a little above 40° in the extreme north of Europe, and to 32° at Moscow and Kharkov. Rising later to 66° in London and at Nottingham, 67° at Oxford, 69° at Clacton-on-Sea, and to above 70° in the far south. Highest values, 79° at Oporto and 81° at San Fernando. Night again very warm over our Islands.

Wind at 8 a.m. Westerly or South-Westerly over nearly all the more northern regions, but South-Easterly in the north of Finland. Strong to a gale in the latter country and Scandinavia, and fresh or strong at a few of our own stations. Moderate or light breezes between North-East and North-West prevailing over southern Europe. Little change later beyond some decrease in force.

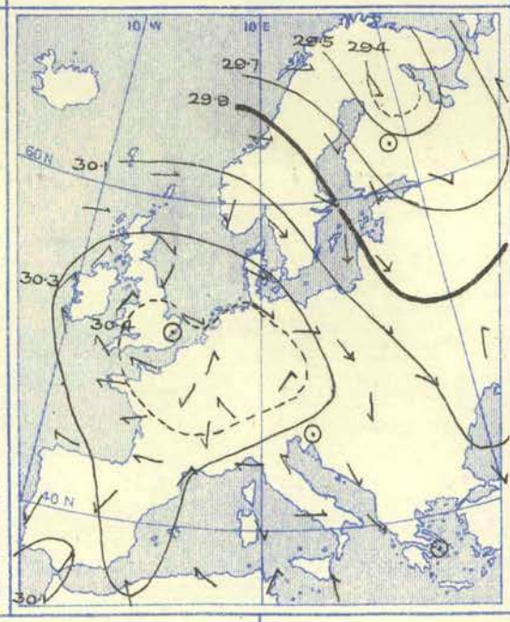
Barometer at 8 a.m. highest, 30·4 ins. and upwards in a maximum over the southern part of the Bay of Biscay and in another area over the southern half of Russia; relatively high in a long band connecting the two regions. Lowest, about 29·0 ins. in a depression centred over the north of Scandinavia. Below 30·0 ins. in another system over the Ionian Sea. South-western anticyclone extending northwards later, and that over Russia either giving way or moving eastwards.

Wednesday, 19th October, 1904.

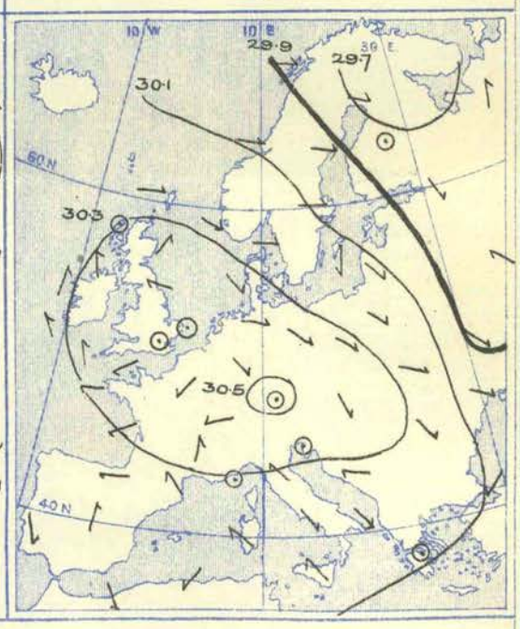
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



6 p.m.



Weather at 8 a.m. fine and bright in many parts of Sweden and southern Europe; cloudy or dull in most other regions, with fog or mist at many of our own stations and over the Netherlands, showers at Blacksod Point, and rain at Christiansund, Archangel, and Kiev. Slight rain experienced later on our own west coasts and in Russia, and considerable amounts in the west of Norway.

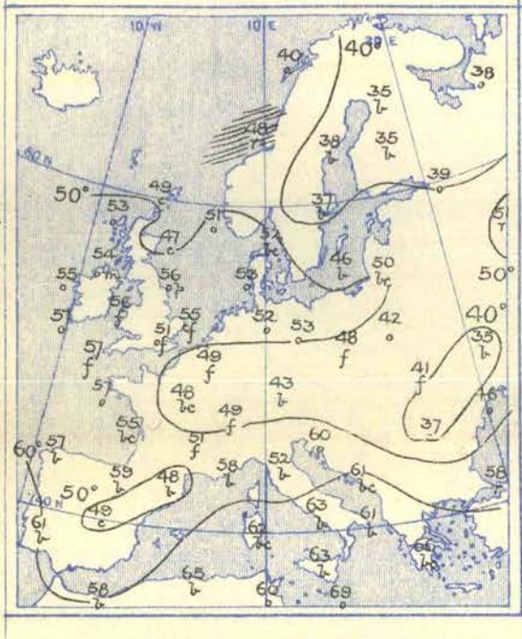
Temperature changed rather irregularly—risen in Scotland and Hungary, fallen in England and Sweden. Morning readings highest, 69° at Barcelona, 68° at Malta, and 65° at Athens and Lésina. Lowest, (1) 34° at Kuopio, 38° in the north of Sweden, (2) 49° at Turin, (3) 50° at Madrid. Very uniform over our Islands. Maxima during day, 82° at Sfax, 79° at Athens, 77° at Palermo, Lisbon, and Gap, and above 70° in many other southern localities. Thermometer not much exceeding 60° over central Europe.

Wind at 8 a.m. light and anticyclonic over the greater part of our area, but a cyclonic circulation of moderate to strong winds prevailing around the north of Finland. Latter movement becoming less decided during day and almost dying out by evening.

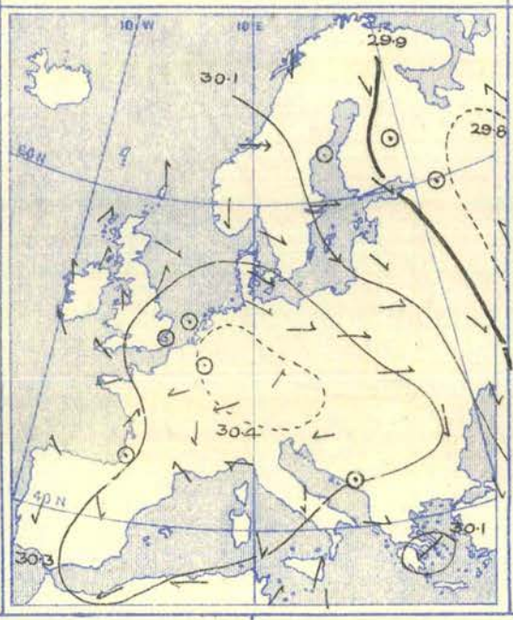
Barometer at 8 a.m. ranging from above 30·5 ins. in a large anticyclone having its centre over England, the Netherlands, and a good part of France and Germany, to 30·1 ins. in the south of Spain, and to 29·4 ins. in the extreme north of Finland. High pressure expanding eastwards later, and Finnish depression either dispersing or travelling away northwards.

Thursday, 20th October, 1904.

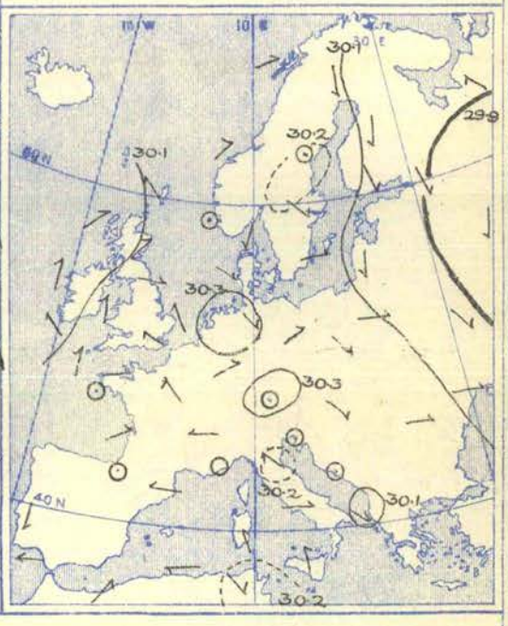
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in many southern regions and also in Sweden; cloudy or overcast generally, with much mist or fog in the United Kingdom and over the adjacent parts of the Continent. Rain falling at Moscow, Christiansand, and Donaghadee, and passing showers at North Shields. Slight rain experienced later on our west and north-west coasts and three-quarters of an inch at Moscow.

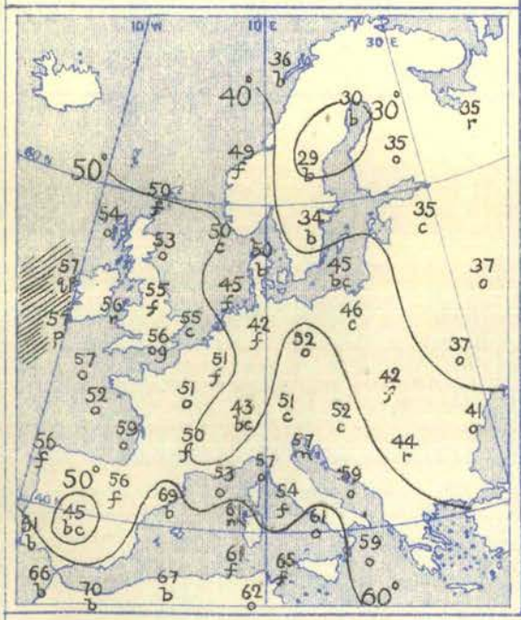
Temperature fallen except in the west of Norway. Morning readings ranging from 69° at Palermo and Malta, 67° at Oran, and 66° in Greece, to below 60° over our area generally, below 50° over central Europe, and to below 40° at some Russian, Finnish, and Swedish stations. Rising during day to 65° in London, and to above 70° on many shores of the Mediterranean and in central Spain. Highest readings, 77° at La Calle and 82° at Toulouse.

Wind at 8 a.m. light and anticyclonic very generally, but drawing into South-South-East and South along our western coasts. Scarcely any change taking place later.

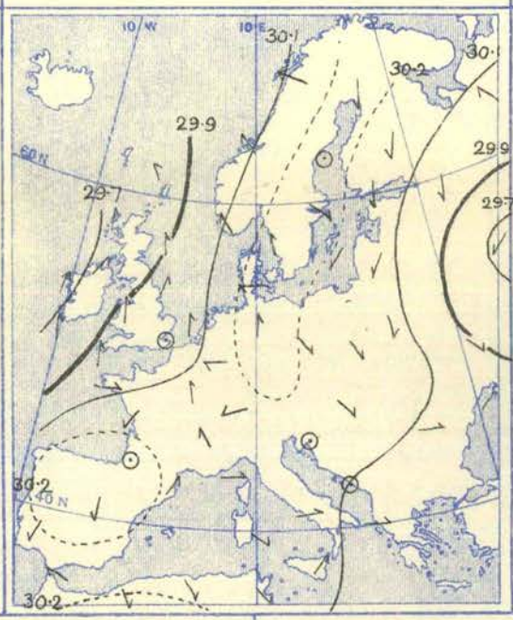
Barometer at 8 a.m. ranging from 30·4 ins. and upwards in a very large anticyclone with its maximum over the centre of the Continent and the Netherlands, to less than 29·8 ins. over Russia, and to below 30·2 ins. on our most western coasts. Anticyclone giving way later, and Atlantic depressions spreading eastwards over our Islands and western Europe generally.

Friday, 21st October, 1904.

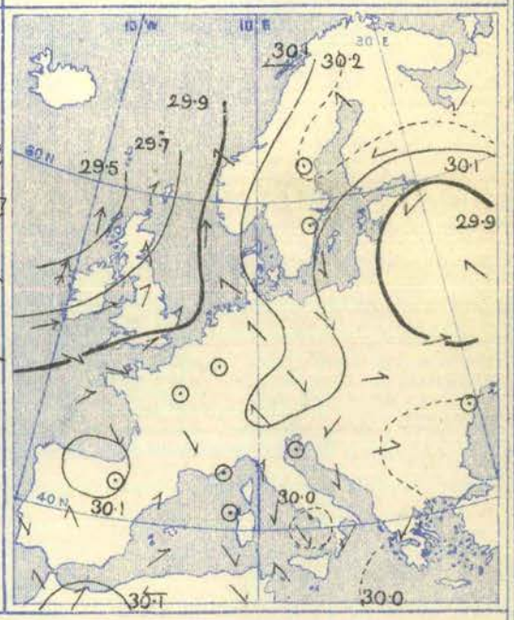
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in the Spanish Peninsula and Sweden; cloudy or overcast as a whole, with mist or fog in many localities, and showers or steady rain at Archangel and at some of our own western and northern stations. Small quantities of rain falling later in most parts of our Islands and the north of France, but 0·4 in. at Stornoway. As much as 0·75 in. falling at Hermanstadt.

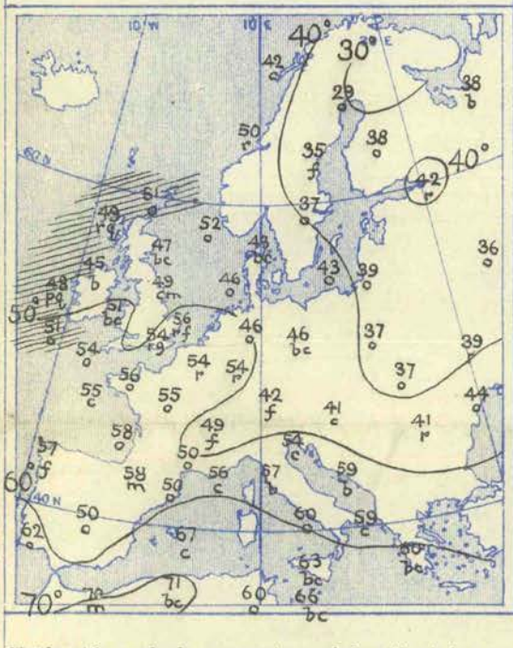
Temperature changed irregularly. Morning readings highest, 70° at Oran, 69° at Barcelona, 66° at San Fernando, and 65° at Palermo. Lowest, (1) 29° or 30° in the north of Sweden, (2) 37° at Moscow and Kiev, (3) 45° at Madrid, 46° at Limoges, and 48° at Perpignan. Rising later to 60° or a little higher at some of our own stations, and to above 70° in the far south of Europe and in Algeria and Tunis. Highest values, 88° at Tunis and 80° at Perpignan.

Wind at 8 a.m. Southerly in all the north-western countries and between North-West and North-East in the east. Light generally, but strong in the north-west of Ireland. An anticyclonic movement prevailing over the Iberian Peninsula. Increasing to a gale at Blacksod Point by evening and a cyclonic circulation setting in over Russia.

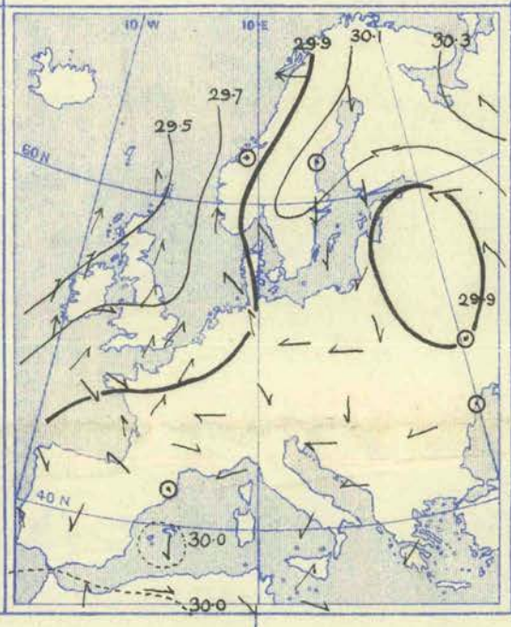
Barometer at 8 a.m. ranging from above 30·2 ins. in an anticyclone over the north of Spain and in a long band extending from Bavaria to Lapland, to below 29·7 ins. both over central Russia and off our own north-west coasts. Depression in the north-west moving north-eastwards and spreading eastwards and Russian disturbance moving westwards. Anticyclone over the Bay of Biscay giving way slowly.

Saturday, 22nd October, 1904.

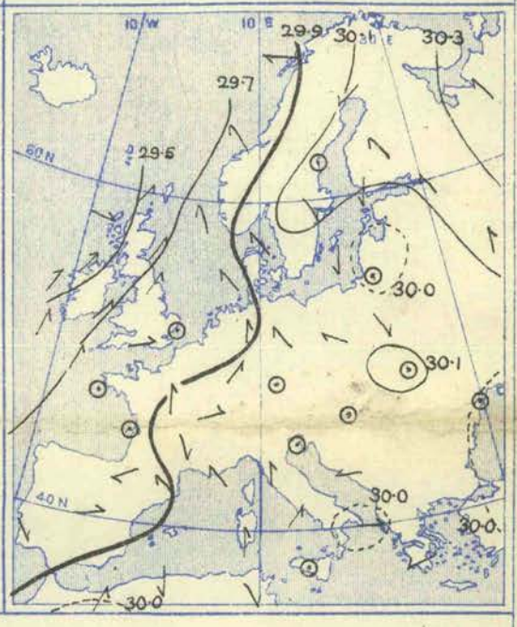
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather at 8 a.m. cloudy or overcast as a whole, with rain in several parts of these Islands and their neighbourhood, as well as in Russia and at Hermanstadt, and fog on the coast of Portugal. Sky nearly clear at some stations in the far south and also in some British and Irish localities. Rain falling at Lisbon during day and in some parts of Scandinavia, and continuing at some of our own stations. Day very fine in North Wales and the north-west of England.

Temperature fallen in most regions. Morning readings ranging from 71° at Algiers, 66° at Malta, and 62° at Lisbon, to below 40° in most parts of Russia and Sweden, to 33° at Archangel and to 29° at Haparanda. Rising later to 88° at Sfax, 82° at Algiers, 75° at San Fernando, and above 70° at many southern stations. Maxima below 50° in some German localities, and below 60° in most parts of the United Kingdom.

Wind at 8 a.m. light or moderate from South-West or West over our Islands generally, but strong from South-South-West along our extreme north-western coasts. A light cyclonic circulation prevailing over Russia and light variable winds in most other regions. Not much change later, but some backing taking place over our Islands.

Barometer at 8 a.m. ranging from above 30·3 ins. in the north of Russia to below 29·9 ins. in a large depression embracing the eastern parts of that country, and to less than 29·5 ins. in another system off our own north-west coasts. Russian depression beginning to disperse during day, but barometer falling along the west coasts of our Islands, and also over France and the Iberian Peninsula.

IV.—GENERAL NOTES, etc.

The position of the highest pressure area varied considerably. At first the barometer was relatively high in a long band extending from the Iberian Peninsula to Russia, while a deep and extensive depression moved north-eastwards over the north-western and northern regions and some shallow disturbances were found over the Mediterranean. By Wednesday pressure had given way over Russia and the barometer had become highest over the central and western countries. Depressions advancing from the Atlantic, however, encroached gradually over our Islands and the most western countries of the Continent and the anticyclone decreased slowly in intensity, and finally only existed as a narrow band extending from the Polar regions to the Gulf of Bothnia. During the latter days of the week depressions were travelling north-eastwards over the northern part of the Atlantic, while a large shallow depression moved westwards over Russia. Gales from between South and West were experienced over our Islands and the north-western countries at the beginning of the week, but as a whole the wind had little strength. The weather was drier than for some time past over Italy and central Europe and the weather continued fine over the Spanish Peninsula and the south of France. Over our Islands the greater part of the week was dull and misty or foggy, the temperature high, and the air very humid. Temperature varied a good deal on the Continent but was not, as a rule, low for the time of year.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 248.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	19·0	+ 1·6	28	+ 2
STRATHPEFFER SPA	15·3	- 4·7	22	- 7
CRATHES	29·5	—	43	—
BALRUDDERY	16·9	—	25	—
EDINBURGH	19·3	+ 1·7	28	+ 3
COCKLE PARK	23·4	—	33	—
NEWCASTLE-on-TYNE	17·0	—	24	—
YORK	11·3	- 7·1	16	- 10
SKEGNESS	14·3	—	20	—
CROMER	14·2	—	20	—
LOWESTOFT	16·1	—	23	—
DUNMOW	19·8	—	28	—
SHEFFIELD	16·7	—	24	—
WORKSOP	9·7	- 8·6	14	- 12
THURCASTON	16·3	- 2·9	23	- 4
MARGATE	17·1	- 6·5	24	- 9
BROADSTAIRS	18·6	—	26	—
RAMSGATE	19·0	—	26	—
EASTBOURNE	6·4	- 19·8	9	- 28
BRIGHTON	9·7	- 17·3	13	- 24
WORTHING	19·8	—	28	—
BOGNOR	12·1†	—	17†	—
WESTBOURNE	14·9†	- 10·1	21†	- 14
VENTNOR HOSPITAL	9·8	- 17·5	14	- 24
BOURNEMOUTH	13·1	—	18	—
MARLBOROUGH	10·1	- 11·3	14	- 16
SOUTHPORT	11·4	—	16	—
RHYL	20·7	—	29	—
ABERDOVEY	15·4†	—	22†	—
TENBY	9·0	- 14·4	13	- 20
TORQUAY	12·9	- 11·1	18	- 15
NEWQUAY	10·6	- 14·4	15	- 20
GUERNSEY	19·3†	- 5·8	27†	- 8

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 26, page 152	Scarborough	—	—	—	48·1	54·5	- 2·6	88	—	—	—	—	—	—	—	—
" " "	Cheadle	—	—	—	47·1	56·4	- 0·3	101	—	—	—	—	—	—	—	—
" " "	Blackpool	—	—	—	—	—	—	—	—	—	—	—	76·6	+32·5	—	—
" " 156	Broadstairs	—	—	—	—	—	—	—	—	—	—	—	80·0	—	70	—
No. 27, page 158	Blackpool	—	—	—	—	—	—	—	—	3	0·25	- 0·37	50·4	+ 8·2	43	—
" " "	Markree Castle	—	—	63·1	—	55·9	- 0·3	97	0	—	—	—	—	—	—	—

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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TWENTY-SEVENTH YEAR. *Vol XXI. (New Series.)* No. 43. FORTY-THIRD WEEK, ENDING SATURDAY, OCTOBER 29TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS (See p. 254.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	57	35	52·1	42·9	47·3	3 above	37	+ 8	0	−11	1970	+ 65	490	−106
	1. SCOTLAND, EAST	59	29	54·1	41·1	47·4	3 above	42	+11	3	−11	2149	−103	607	− 38
	2. ENGLAND, N.E.	63	30	55·4	40·9	47·9	2 above	46	+ 9	3	− 5	2624	+165	442	− 73
	3. ENGLAND, EAST	62	33	56·5	42·9	49·5	3 above	53	+12	0	− 9	2924	+ 76	404	−164
	4. MIDLAND COUNTIES	60	31	53·9	37·9	45·7	0 (average)	43	+ 4	11	0	2695	− 96	494	− 96
	5. ENGLAND, SOUTH	63	33	56·7	43·6	49·9	2 above	55	+ 4	0	− 6	2996	−124	345	− 71
Principal Grazing Districts.	6. SCOTLAND, WEST	59	36	53·5	44·0	48·6	3 above	46	+10	0	− 8	2363	− 28	378	− 68
	7. ENGLAND, N.W.	59	35	53·9	42·0	47·8	1 above	41	0	0	− 6	2583	− 46	388	− 29
	8. ENGLAND, S.W.	63	30	56·4	42·0	49·0	1 above	49	− 1	0	− 4	2946	+ 30	252	− 66
	9. IRELAND, NORTH	59	31	53·8	42·4	47·9	2 above	41	+ 3	0	− 7	2391	−137	338	− 42
	10. IRELAND SOUTH	63	33	56·9	43·1	49·8	2 above	55	+ 8	0	− 6	2835	− 37	232	− 43
	— CHANNEL ISLANDS	64	42	58·7	49·1	53·8	2 above	83	+13	0	− 1	3447	+ 56	80	− 42

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 254.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	7	5 less	202	+18	41·9	+ 3·4	10	− 5	16	− 7	1115	+ 55	28	+ 1
	1. SCOTLAND, EAST	3	1	6 less	166	+ 7	22·2	− 3·0	16	− 2	25	− 3	1173	− 42	30	− 1
	2. ENGLAND, N.E.	1	1	6 less	135	−10	17·2	− 3·1	24	+ 2	36	+ 3	1336	− 17	34	0
	3. ENGLAND, EAST	2	2	4 less	133	−14	16·6	− 3·1	30	+ 7	45	+11	1543	+ 40	40	+ 1
	4. MIDLAND COUNTIES	2	1	6 less	143	+ 3	20·1	− 2·4	22	+ 4	32	+ 6	1302	+ 43	33	+ 1
	5. ENGLAND, SOUTH	1	2	5 less	147	+10	21·9	− 0·6	30	+ 7	43	+11	1513	+ 31	39	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	2	3	9 less	169	+ 5	40·0	+ 0·7	10	− 8	15	−12	1235	− 44	31	− 1
	7. ENGLAND, N.W.	1	1	8 less	159	+ 4	25·2	− 2·7	24	+ 7	36	+11	1352	+123	35	+ 3
	8. ENGLAND, S.W.	1	1	9 less	161	+ 6	30·8	+ 0·8	32	+13	47	+18	1440	− 84	37	− 2
	9. IRELAND, NORTH	4	6	2 less	205	+19	31·8	+ 2·7	16	− 2	25	− 3	1157	− 14	30	0
	10. IRELAND, SOUTH	2	5	5 less	182	+15	33·8*	+ 1·8	26	+ 5	38	+ 7	1336	+ 2	34	0
	— CHANNEL ISLANDS	4	1	8 less	188	+29	29·2	+ 3·9	35	+11	49	+16	1693	− 60	44	− 2

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather. The general character of the weather was fair or very fine. A little rain was, however, experienced in most places at the commencement of the week, and some heavy falls in many parts of Ireland on the 27th.

Temperature was above the mean in all districts except the Midland Counties, the excess ranging from 1° in England N.W. and S.W. to 3° over Scotland E. and in England E. The weekly average in the Midlands was about 4° lower than that in England S. and E. The highest of the maxima were registered on rather irregular dates. They ranged from 64° in the Channel Islands and 63° in several other English districts to 57° in Scotland N. The lowest of the minima, which also occurred on irregular dates, varied from 29° in Scotland E., 30° in England N.E. and S.W., and 31° in the Midland Counties and Ireland N., to 36° in Scotland W., and to 42° in the Channel Islands.

Rainfall was less than the mean in all districts. Excepting in Ireland and the north of Scotland the total fall did not exceed one or two tenths of an inch.

Bright Sunshine exceeded the mean generally, but was deficient in Ireland N. and over Scotland. The percentage of the possible duration was as high as 49 in the Channel Islands, 47 in England S.W., 45 in England E., and 43 in England S., but decreased to 25 in Ireland N., 16 in Scotland N., and to 15 in Scotland W.

Barometer and Wind. At the beginning of the week a depression of little intensity moved eastwards from our northern coasts, and by Tuesday an anticyclone had spread over the Kingdom from the westward, and the wind had veered to West or North-West very generally. This system subsequently passed eastwards to the Continent, and the wind over our Islands returned to the Southward. By the end of the period, however, a new anticyclone had advanced quickly to Scotland from the north-westward, and the wind had shifted to the Eastward on all our coasts. This Easterly current had little force except in the south and south-east, where it blew a strong breeze.

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II.—DATA from which the SUMMARY on page 253 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	53	43	50·9	44·7	47·7	+ 3·2	40	0	7	0·71	- 0·29	*	*	*	*
	Stornoway	54	39	52·1	42·6	47·2	+ 3·0	36	0	6	0·49	- 0·71	11·3	- 5·1	18	- 8
	Wick	55	37	53·4	41·9	47·5	+ 3·0	39	0	6	0·45	- 0·23	*	*	*	*
	Lairg ℌ	57	35	51·6	41·5	46·4	+ 4·2	33	1	6	0·91	+ 0·05	*	*	*	*
	Glencarron ℌ	55	42	51·4	43·5	47·3	+ 3·8	37	0	6	1·39	- 0·68	*	*	*	*
	Fort Augustus ℌ	56	35	53·0	43·1	47·9	+ 3·1	41	0	2	0·04	- 0·92	14·3	+ 3·3	22	+ 5
	Fort William	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1. SCOTLAND, E.	Nairn	58	38	54·6	41·0	47·6	+ 3·4	43	3	4	0·10	- 0·43	*	*	*	*
	Aberdeen	58	38	54·3	43·4	48·7	+ 3·6	47	0	4	0·12	- 0·56	12·2	- 7·0	19	- 11
	Braemar ℌ	59	29	52·1	39·0	45·4	+ 4·1	36	8	1	0·05	- 0·83	*	*	*	*
	Ochtertyre ℌ	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Leith	58	39	55·4	42·9	49·0	+ 2·7	49	0	3	0·05	- 0·41	*	*	*	*
	Marchmont ℌ	57	35	54·0	39·1	46·3	+ 2·4	42	8	2	0·10	- 0·69	17·3	+ 0·5	26	+ 1
2. ENGLAND, N.E.	Alnwick Castle	60	33	56·4	38·9	47·4	+ 2·1	51	9	1	0·04	- 0·71	*	*	*	*
	Durham	59	30	53·8	38·7	46·0	+ 0·9	42	9	0	0·00	- 0·68	20·0	+ 2·5	30	+ 4
	Shields	59	37	54·9	40·4	47·4	+ 1·2	45	4	0	0·00	- 0·60	*	*	*	*
	Scarborough ℳ	63	40	57·5	43·2	50·1	+ 3·3	57	0	1	0·07	- 0·65	27·0	—	40	—
	Spurn Head	57	44	55·7	46·4	50·9	+ 3·3	62	0	1	0·03	- 0·50	*	*	*	*
	Lincoln	60	35	54·6	40·5	47·3	+ 1·0	43	4	1	0·05	- 0·49	*	*	*	*
	Fulbeck (Lincolnshire)	59	35	55·0	38·1	46·3	+ 0·9	46	11	3	0·16	- 0·35	25·6	—	38	—
3. ENGLAND, E.	Hillington ℳ	59	34	56·6	39·5	47·8	+ 1·5	51	7	4	0·30	- 0·33	23·5	+ 4·6	35	+ 7
	Yarmouth	57	41	54·7	45·7	50·1	+ 2·6	57	0	2	0·17	- 0·49	*	*	*	*
	Geldeston	62	36	58·0	40·6	49·0	+ 1·6	55	4	2	0·17	- 0·43	27·3	+ 5·3	40	+ 8
	Cambridge	60	33	57·4	39·4	48·1	+ 1·6	54	7	2	0·28	- 0·24	29·8	+ 8·6	44	+ 13
	Felixstowe	60	43	56·5	47·5	51·9	+ 4·6	69	0	1	0·20	—	36·1	—	53	—
	Clacton-on-Sea	57	40	56·0	45·9	50·8	+ 3·7	62	0	2	0·18	—	36·5†	—	54†	—
	Rothamsted	58	33	56·0	39·2	47·4	+ 1·4	50	8	4	0·30	- 0·35	31·7	+ 10·5	47	+ 15
	Shoeburyness	58	41	56·6	45·7	51·0	+ 3·5	63	0	1	0·13	- 0·39	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	58	35	53·5	39·7	46·4	+ 1·4	40	6	1	0·10	- 0·63	25·8	—	38	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	58	31	55·3	34·9	44·8	- 1·3	49	20	2	0·04	- 0·51	18·2	—	27	—
	Colly Weston (Stamford)	58	33	54·3	37·9	45·9	- 0·4	45	11	3	0·14	- 0·46	*	*	*	*
	Cheadle ℳ	54	38	52·2	40·6	46·2	+ 1·5	35	4	1	0·04	- 0·71	*	*	*	*
	Birmingham (Edgbaston)	55	39	53·0	41·4	47·0	+ 0·6	38	2	1	0·05	- 0·58	19·7	—	29	—
	Shrewsbury	60	34	55·1	36·5	45·5	- 1·3	48	15	0	0·00	—	*	*	*	*
	Hereford ℳ	57	33	53·1	36·9	44·8	- 1·7	41	14	2	0·03	- 0·59	*	*	*	*
	Cirencester	55	32	53·8	36·9	45·1	- 0·2	43	14	2	0·08	- 0·62	26·4	+ 6·6	39	+ 10
	Oxford	57	35	54·6	36·7	45·4	- 1·0	46	15	3	0·17	- 0·37	20·2	+ 0·5	30	+ 1
5. ENGLAND, S.	London	61	39	57·3	43·4	50·1	+ 2·3	57	0	1	0·11	- 0·46	21·1‡	+ 6·5‡	31‡	+ 9‡
	Wisley (Surrey)	59	33	56·6	40·1	48·1	0·0	51	5	3	0·18	—	26·8	—	39	—
	Swarraton (Alresford) ℳ	58	35	55·7	38·3	46·7	+ 0·7	48	10	2	0·38	- 0·38	*	*	*	*
	Tunbridge Wells ℳ	57	35	56·3	43·2	49·6	+ 3·5	53	0	1	0·18	—	35·1	—	51	—
	Dungeness	59	40	57·1	46·6	51·7	+ 2·4	68	0	1	0·05	- 0·65	31·2	—	45	—
	Hastings (St. Leonards)	61	42	57·9	46·7	52·1	+ 3·0	71	0	1	0·12	- 0·71	38·0	+ 14·2	55	+ 21
	Southampton	63	40	57·6	43·7	50·4	+ 1·8	59	0	1	0·31	- 0·45	29·5	+ 7·3	43	+ 11
	Portland Bill	60	44	56·9	47·0	51·8	+ 2·5	69	0	1	0·14	—	*	*	*	*
	Shaftesbury ℳ	61	40	55·0	43·4	49·0	+ 3·0	49	0	1	0·31	- 0·53	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	59	40	53·9	45·7	49·7	+ 3·6	54	0	5	1·11	- 0·61	*	*	*	*
	Glasgow	54	42	52·4	45·7	49·0	+ 4·2	49	0	1	0·11	- 0·74	7·7	- 5·3	12	- 8
	Cally ℌ	57	36	55·1	40·9	47·8	+ 2·2	45	3	3	0·32	- 0·79	*	*	*	*
	Aspatria	56	38	52·5	42·1	47·2	+ 2·1	36	0	1	0·10	—	12·6	—	19	—
	Douglas (Isle of Man)	55	40	53·7	45·5	49·5	+ 2·4	53	0	1	0·03	- 1·00	10·1	- 10·3	15	- 15
7. ENGLAND, N.W.	Newton Rigg	56	37	52·7	39·6	46·0	+ 1·7	38	7	1	0·03	—	17·4	—	26	—
	Stonyhurst	54	39	51·8	41·8	46·7	+ 1·2	34	1	1	0·14	- 0·98	23·0	+ 6·3	34	+ 9
	Blackpool ℳ	56	38	53·8	44·3	48·9	+ 2·0	48	0	2	0·09	- 0·82	23·5	+ 6·7	35	+ 10
	Manchester (Prestwich)	59	35	54·5	40·0	47·0	+ 1·0	43	6	1	0·11	- 0·78	22·3	—	33	—
	Liverpool Obsy. (Bidston)	55	40	53·1	43·7	48·3	+ 0·9	44	0	1	0·13	- 0·61	20·4	—	30	—
	Chester (Hawarden Bridge)	57	35	55·0	40·7	47·6	- 0·2	45	4	2	0·06	—	*	*	*	*
	Llandudno ℳ	59	39	54·6	44·8	49·6	+ 0·9	53	0	2	0·16	- 0·71	25·8	+ 8·8	38	+ 13
	Holyhead	56	42	54·0	46·1	49·9	+ 0·7	55	0	2	0·22	- 0·73	*	*	*	*
	Bettws-y-Coed	59	36	55·7	36·9	46·0	- 1·6	49	14	1	0·10	—	30·6	—	45	—
8. ENGLAND, S.W.	Llangammarch Wells	56	30	53·9	35·1	44·2	- 0·8	44	19	4	0·19	—	20·6	—	30	—
	Pembroke	58	44	56·0	47·9	51·8	+ 1·7	69	0	2	0·06	- 0·88	31·6	+ 11·1	47	+ 16
	Cardiff	61	33	56·8	39·6	48·0	+ 0·1	52	7	1	0·01	—	*	*	*	*
	Clifton	59	38	55·3	41·4	48·1	+ 0·5	45	2	0	0·00	- 0·84	*	*	*	*
	Bath	62	35	56·7	40·1	48·2	+ 0·7	51	5	2	0·04	- 0·65	23·9	—	35	—
	Arlington (N. Devon)	59	37	55·7	41·9	48·6	+ 1·3	47	0	0	0·00	- 1·40	*	*	*	*
	Cullompton ℳ	63	34	57·7	38·0	47·6	+ 0·8	56	11	0	0·00	- 0·87	22·4	+ 3·5	33	+ 5
	Falmouth	59	44	57·1	48·6	52·7	+ 2·4	75	0	3	0·13	- 1·08	40·1	+ 16·6	58	+ 24
	Plymouth	62	40	58·6	45·6	51·9	+ 2·2	69	0	0	0·00	- 0·84	35·8	+ 14·6	52	+ 21
9. IRELAND, N.	Malin Head	54	40	52·3	43·7	47·9	+ 0·4	41	0	5	0·72	+ 0·02	*	*	*	*
	Edenfel (Omagh)	55	32	52·1	41·3	46·5	+ 2·2	34	2	3	0·92	+ 0·07	*	*	*	*
	Blacksod Point	59	40	54·6	44·6	49·5	+ 1·1	53	0	5	1·21	+ 0·01	*	*	*	*
	Markree Castle	56	31	54·7	38·7	46·5	+ 0·8	45	9	3	0·47	- 0·48	19·2	+ 1·2	29	+ 2
	Armagh	58	33	54·4	42·2	48·1	+ 2·7	43	0	5	0·12	- 0·52	13·5	- 4·9	20	- 7
	Donaghadee	57	41	54·6	44·0	49·1	+ 2·0	50	0	2	0·19	- 0·53	*	*	*	*
10. IRELAND, S.	Dublin	60	34	56·1	44·0	49·9	+ 2·0	55	0	1	0·01	- 0·63	20·0	- 2·3	29	- 3
	Birr Castle	59	34	55·4	40·1	47·5	+ 1·5	46	5	3	0·39	- 0·27	23·1	+ 3·2	34	+ 5
	Kilkenny	59	33	56·1	42·3	49·0	+ 2·0	49	0	3	0·14	- 0·56	*	*	*	*
	Waterford	59	38	57·3	42·3	49·6	+ 2·0	53	0	1	0·06	- 0·82	*	*	*	*
	Roche's Point	57	42	55·9	47·4	51·5	+ 2·0	67	0	4	0·98	+ 0·01	*	*	*	*
	Valencia	62	35	58·6	42·7	50·4	+ 0·5	59	0	2	0·96	- 0·33	34·6	+ 13·8	51	+ 20
	Killarney	63	33	60·6	44·5	52·3	+ 3·9	72	0	3	0·74	- 0·60	*	*	*	*
	Foynes	58	37	55·5	41·6	48·3	+ 0·9	46	1	2	0·28	- 0·62	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	59	50	58·3	50·9	54·5	+ 2·3	88	0	5	0·15	- 0·71	38·7	+ 15·7	56	+ 23
	Jersey	64	42	59·0	47·3	53·0	+ 1·2	77	0	2	0·06	- 0·94	31·3	+ 6·0	45	+ 9

Stations Marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

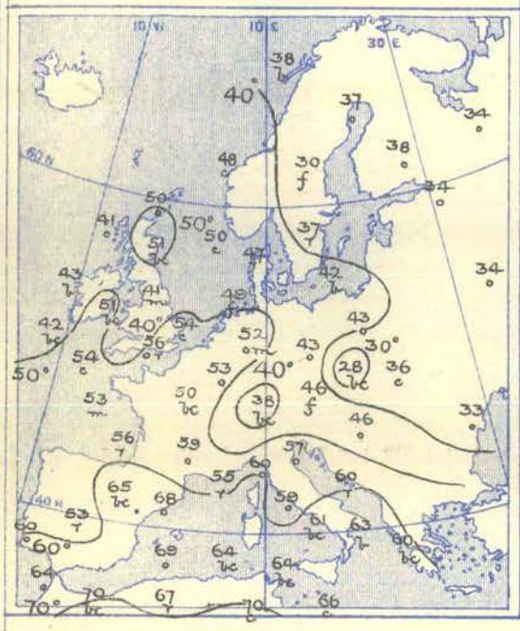
† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 33 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

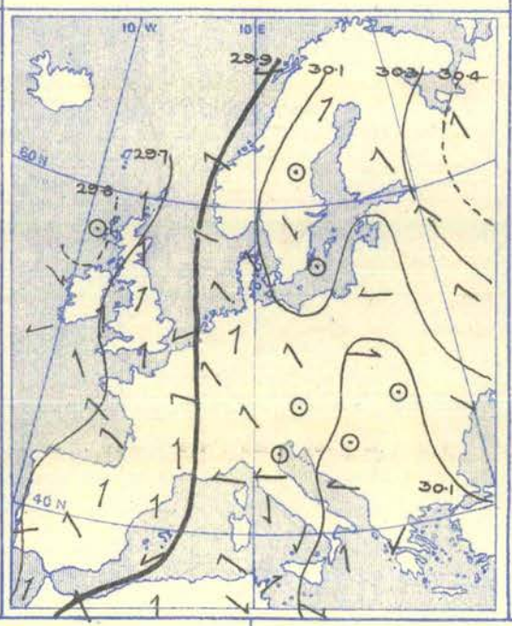
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 23rd October, 1904.

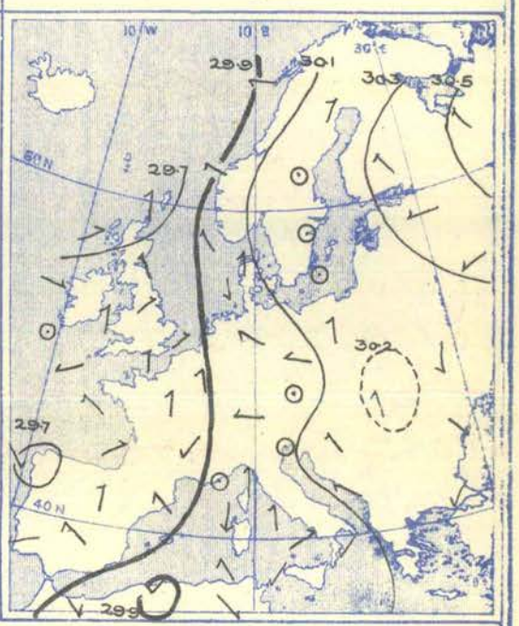
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. cloudy or overcast generally, with rain at several of our own stations and in various parts of southern and northern Europe, and snow at Karlstad. Fog prevailing in some German and Austrian localities. Rain experienced later in most parts of western Europe and in Italy and also at Kharkov—largest amount, 1·6 ins. at the station just named.

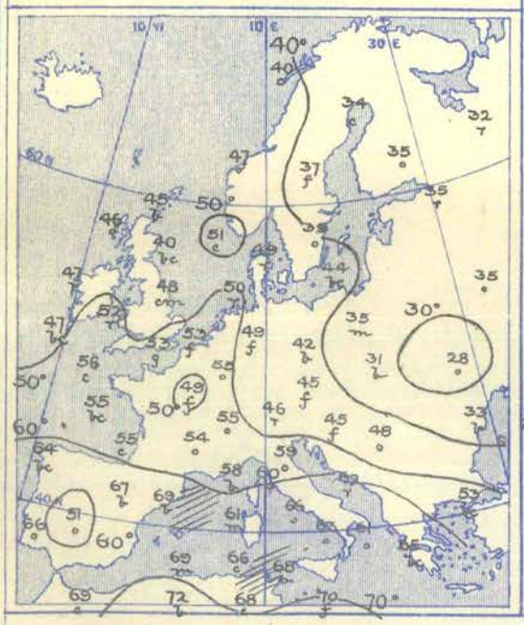
Temperature in morning highest, 70° at Oran and Sfax, 69° at Palma, 65° at Biarritz, and 61° at Athens. Lowest, (1) 28° at Cracow, 32° at Warsaw, and 34° at Moscow, St. Petersburg, and Archangel, (2) 33° at Nottingham, (3) 38° at Munich. Rising subsequently to 61° in London and to above 70° in the south of France, Spain, Algeria, and Greece. Highest values, 91° at Sfax, 81° at Algiers, and 78° at Perpignan. Maxima no higher than 50° in several parts of central Europe.

Wind at 8 a.m. light or moderate from between South and South-East or East over the western half of our area generally, but varying somewhat locally. Light and variable airs prevalent elsewhere. Wind veering to the Westward in Ireland later, but little change occurring as a whole.

Barometer at 8 a.m. ranging from above 30·4 ins. in the north of Russia to less than 29·6 ins. in a depression off our own north-west coasts. Relatively high in an area extending from south-eastern Europe to Poland. Russian anticyclone increasing in intensity during day and depression off our north-west coasts travelling away north-eastwards. Some small secondary disturbances appearing over the Bay of Biscay and its neighbourhood.

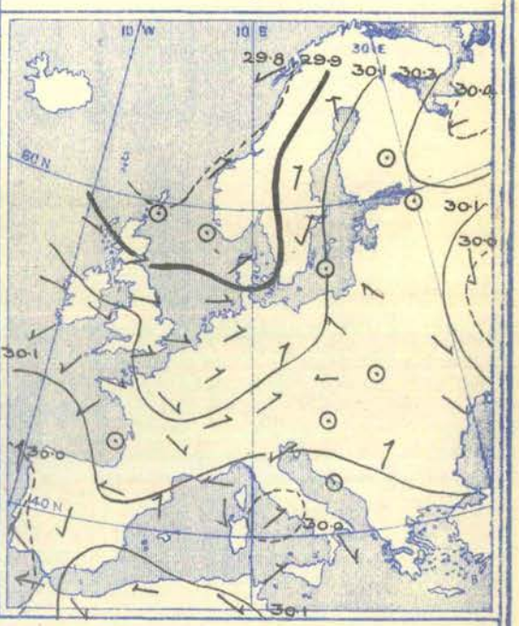
Monday, 24th October, 1904.

Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.

Barometer and Wind. — 6 p.m.



Weather at 8 a.m. fine locally, but generally cloudy or overcast, misty or foggy in many parts of England, the north of France, various parts of Germany and Austria, and some of the Mediterranean stations. Rain falling at some of our western stations, in Denmark, North Russia, Bavaria, North Italy, and the Adriatic. Rain falling in the course of the day in many places here and on the Continent, snow in north-eastern Russia. At Rome the rainfall exceeded an inch, and at Palermo 3·6 ins.

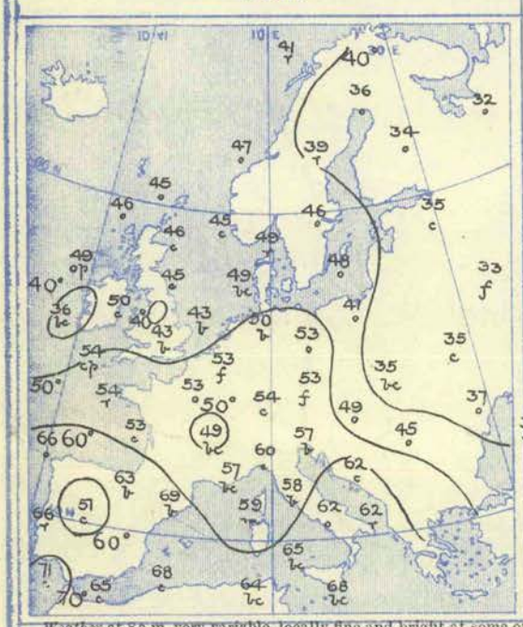
Temperature in morning fallen at some of our western and northern stations, various parts of France, Germany, and northern Russia, but risen in most localities. Highest readings, 72° at Algiers and Laghouat, 70° at Malta, and 69° at Barcelona, Palma, and Nemours. Lowest, 32° at Lemberg, 31° at Warsaw and Nicolaiev, and 28° at Kiev. Rising during the day to 39° at Haparanda and St. Petersburg, 41° at Hernösand, and 43° at Bodö; 60° at Bath and Portland Bill, and 64° at Jersey; 81° at Bilbao and Tunis,; 86° at Nemours, 90° at Sfax, and 93° at Oran.

Wind at 8 a.m. blowing fresh or strong from the Southward at Skagen, Skudesnaes, Nemours, and Palermo, but over the rest of our area moderate to very light from very varied directions. Later falling light at the stations mentioned, a fresh North-Westerly breeze springing up at Blacksod Point, a moderate Easterly gale at San Fernando, calms and light breezes prevailing elsewhere.

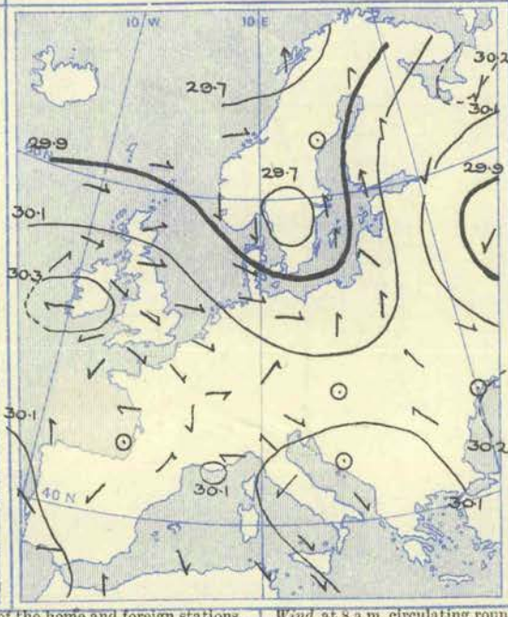
Barometer at 8 a.m. highest, about 30·5 ins. at Archangel, a belt of relatively high readings, above 30·2 ins., extending thence by western Russia down to the Black Sea. Lowest, below 29·8 ins. beyond the north of Scotland, and below 29·9 ins. over the western portion of the Spanish Peninsula. By evening rising to 30·2 ins. in the west of Ireland and in western Algeria. Falling in the west of Scandinavia, and a large shallow depression spreading westward from the Don region towards central Russia.

Tuesday, 25th October, 1904.

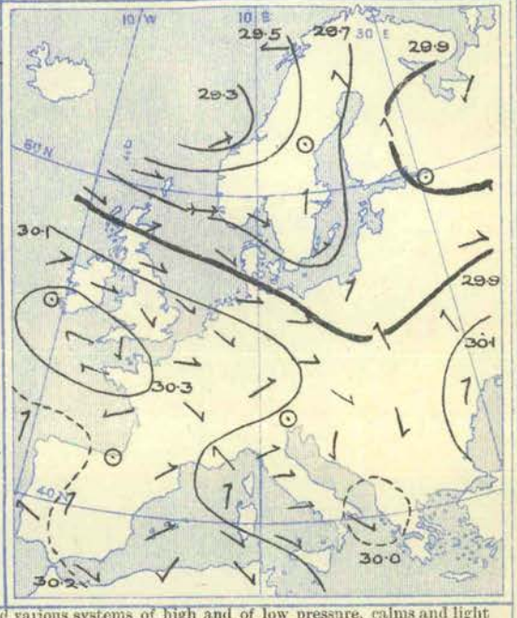
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. very variable, locally fine and bright at some of the home and foreign stations, but generally cloudy to overcast, with rain in many parts of Scandinavia and at isolated stations in other countries, and mist or fog over the more southern portion of England, in various parts of France, central Europe, and at Moscow. Rain falling subsequently at our north-western and northern stations and in the countries eastward of France and Italy, 0·6 in. at Cracow and Haparanda and 0·7 in. at Hernösand. Snow at Archangel yielding 0·5 in. of water.

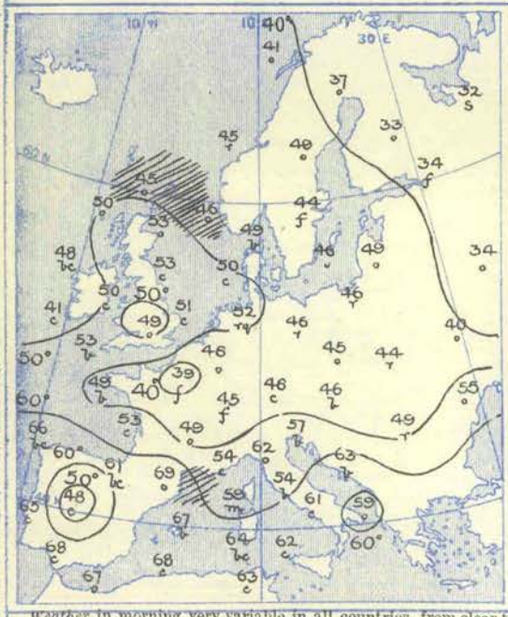
Temperature in morning risen somewhat over Sweden and thence across eastern Germany and Hungary, fallen in nearly all other regions, rather decidedly in various parts of our Islands. Highest readings, 71° at San Fernando, 69° at Barcelona and Oporto, and 68° at Algiers and Malta. Lowest, 34° at Kuopio, 33° at Moscow, 32° at Archangel, and 29° at Nicolaiev. Rising in the course of the day to 88° at Sfax, 86° at Bilbao, 82° at Perpignan, and 81° at Sanguinaires and San Fernando, to 42° at Bodö and Haparanda, 41° at Hernösand, and 39° at St. Petersburg.

Wind at 8 a.m. circulating round various systems of high and of low pressure, calms and light breezes being in the ascendant, but a fresh Westerly wind reported at Malin Head and Belfort, a strong Northerly wind at Faerder, and a moderate Easterly gale at San Fernando. Later a disturbance advancing towards Norway causing a decided Westerly current over our northern districts and round the North Sea, a moderate or fresh gale in places. On the Gulf of Finland a strong Southerly wind setting in. Over the rest of our area no great change taking place.

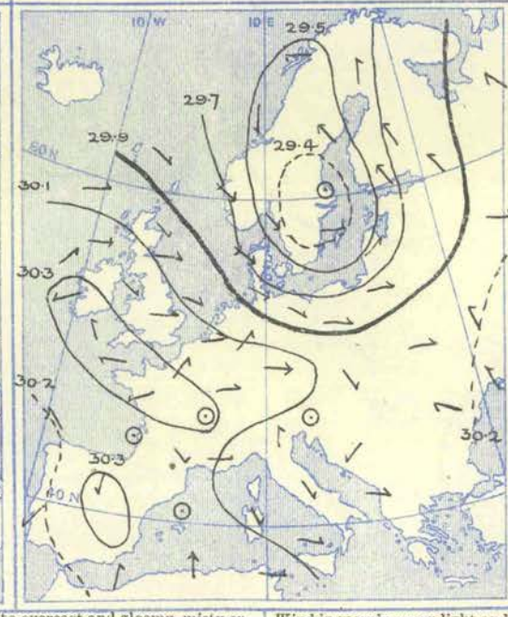
Barometer at 8 a.m. highest, above 30·3 ins. over the southern half of Ireland, readings above 30·2 ins. extending thence down to Algeria; above 30·2 ins. also over the Crimea and the White Sea regions. Lowest, below 29·7 ins. over southern Sweden and off the coast of Norway, 29·8 ins. at Moscow. By evening fallen below 29·3 ins. on the Norwegian coast, and below 29·6 ins. in the south of Sweden. Not much variation elsewhere.

Wednesday, 26th October, 1904.

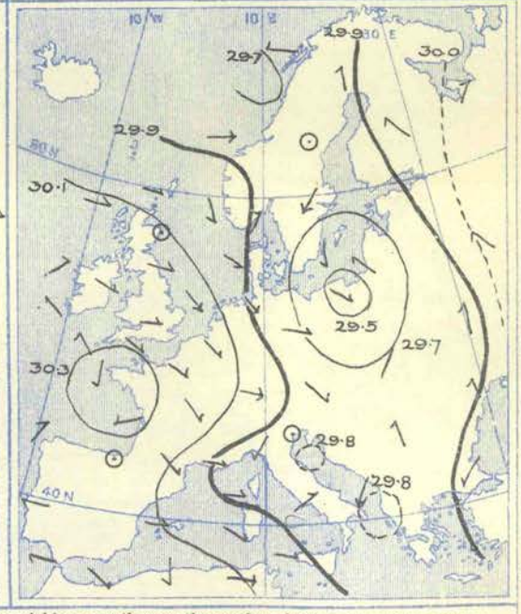
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very variable in all countries, from clear to overcast and gloomy, misty or foggy in many parts of France and at St. Petersburg, rainy in the north of Scotland, Holland, North Germany, the Carpathian region, and locally in Scandinavia and Finland, snowing at Archangel. Rain falling in the course of the day over a considerable extent of northern and eastern Europe, the amounts, as a rule, being small—the heaviest, 0·5 in. at Berlin and Vienna, and 0·6 in. at Breslau and Kiev.

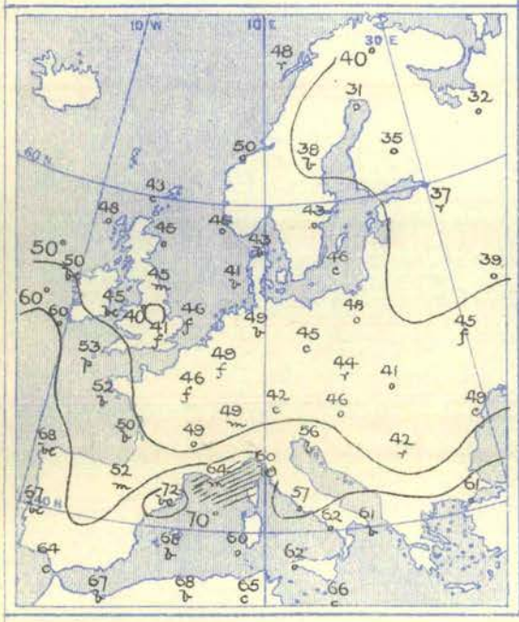
Temperature at 8 a.m. risen over our Islands, on the eastern shore of the North Sea, between the Baltic and the Black Sea, northern Italy and Algeria, fallen in nearly all other districts. Highest readings, 69° at Perpignan, 68° at San Fernando and Algiers, and 67° at Nemours, Oran, and Palma. Lowest, 48° at Madrid, 41° at Valencia, 33° at Kharkov, Kuopio, and Uleaborg, and 32° at Archangel. Subsequently rising to an afternoon maximum of 84° at Biskra, Sfax, and Corunna, 82° at Bilbao, 81° at San Fernando, and 80° at Perpignan, 63° at Scarborough, 62° at Bath and Valencia, 43° at Bodö, 41° at Haparanda, and 37° at St. Petersburg.

Wind in morning very light and variable generally over the southern half of our region; further north circulating cyclonically round a depression over southern Sweden, strong breezes and moderate or fresh gales from between North-West, South-West, and South-East being experienced from the east coast of Britain to the Gulf of Finland. Falling light on our coasts later, but by evening the strong Westerly current had extended southward to Bavaria and Austria.

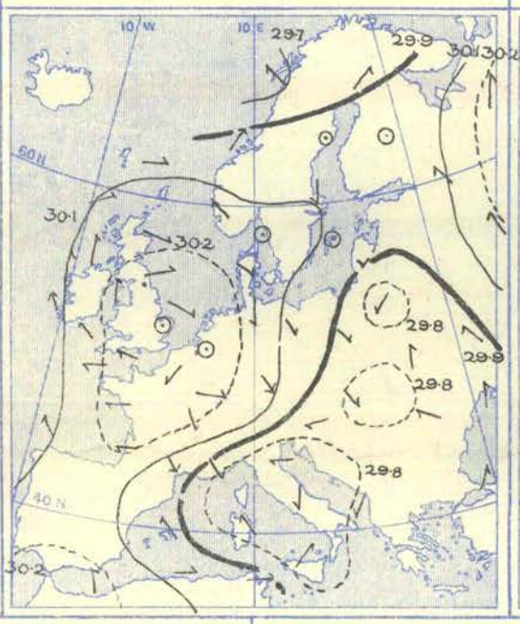
Barometer at 8 a.m. highest, above 30·3 ins. between the south of Ireland and central France, and also over central Spain; above 30·2 ins. in south-eastern Russia. Lowest, below 29·4 ins. in an extensive disturbance having its centre near Stockholm. No important change taking place over western Europe during the day. The Swedish depression moving down the Baltic to the Gulf of Dantzic, barometer below 29·5 ins. in the evening, and a new disturbance, 29·8 ins., forming on the Adriatic.

Thursday, 27th October, 1904.

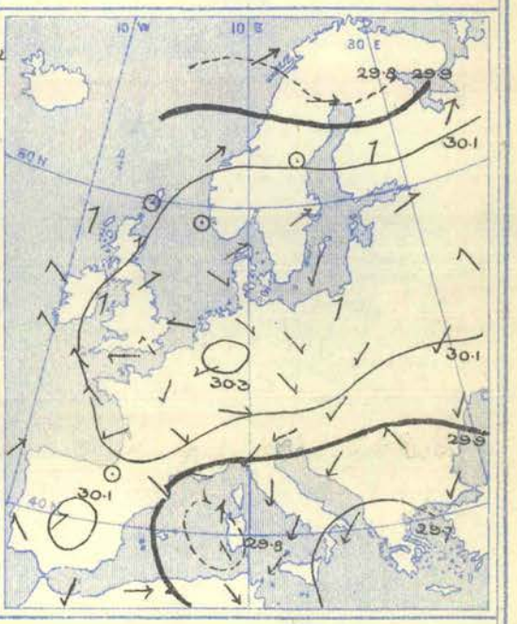
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning generally fair or fine over western Europe and Algeria, but rather misty or foggy in various parts of England, France and Belgium, showery at Scilly; elsewhere mostly overcast and dull, with rain in the Austrian region, at Bodö and St. Petersburg, fog at Kiev. Rainfall later proved slight at nearly all foreign stations, with the exception of 0·6 in. at Brindisi, where a thunderstorm was experienced; heavy over Ireland in the night, from 0·5 in. to nearly an inch in several places.

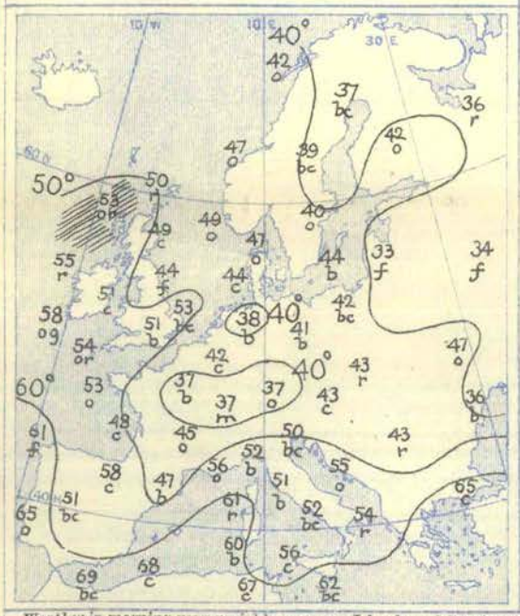
Temperature at 8 a.m. changed very irregularly over Continental countries, fallen decidedly at nearly all our home stations, but risen decidedly in the south of Ireland. Highest readings, 72° at Barcelona, 68° at Corunna, Palma, and Algiers, and 67° at Lisbon, Oran, and Perpignan; 60° at Valencia. Lowest, 36° at Oxford, 35° at Nottingham, 32° at Archangel, and 31° at Uleaborg. During the day attaining a maximum of 88° at Sfax, 82° at Biskra and La Calle, and 80° at Perpignan, 46° at Vienna, 45° at Bodö, 43° at Haparanda, and 41° at St. Petersburg.

Wind in morning showing several anticyclonic and cyclonic circulations, mostly light in force, but blowing freshly from East at Pembroke, from West and North-West in central Europe, strong from South at Valencia, and from South-West at Christiansund. By evening moderating on our south-western coasts and in central Europe, but increasing to a strong Westerly wind or moderate gale over northern Scandinavia, to a fresh or strong Northerly or North-Easterly breeze at the Italian stations, to a moderate North-West gale at Tunis.

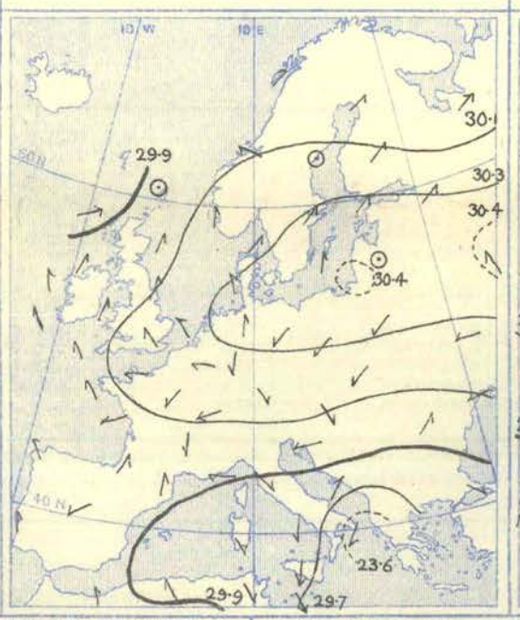
Barometer at 8 a.m. highest in an anticyclone covering western Europe, 30·31 ins. at Oxford; above 30·2 ins. over Morocco and eastern Russia. Lowest, 29·6 ins. at Bodö, 29·7 ins. on the Tyrrhenian Sea, and below 29·8 ins. over Poland. In the evening the highest values, above 30·3 ins., over eastern Russia, 30·3 ins. over the Netherlands, and above 30·1 ins. over central Spain. Lowest, 29·6 ins. at Brindisi, below 29·8 ins. over Sardinia and Lapland.

Friday, 28th October, 1904.

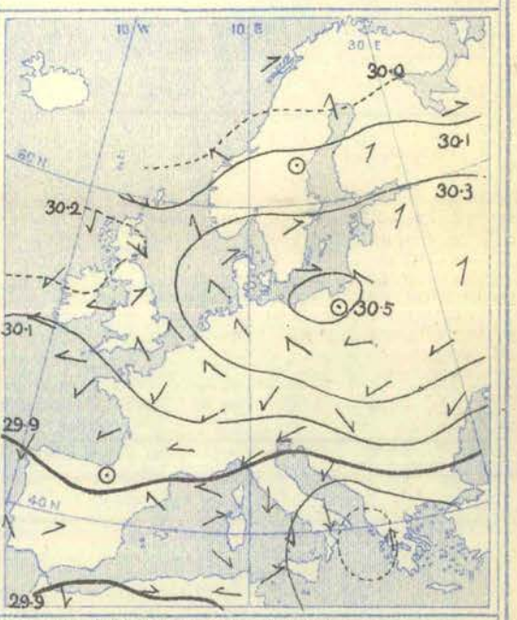
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very variable over our Islands and Continental countries, sky clear in some localities, but generally cloudy to overcast, with rain at several of our western stations, and locally in the south and south-east of Europe and at Archangel; mist or fog at a number of places at home and abroad. During the day rain falling in various districts in the British Isles and northern and southern Europe, the amounts in most cases being small, but 0·5 in. measured at Brindisi and 0·7 in. at Christiansund and Lisbon, a thunderstorm being experienced at the last-mentioned station.

Temperature at 8 a.m. risen at nearly all the home stations, on the west and south coasts of France and in Russia, fallen elsewhere, the changes in some places amounting to as much as 10° to 20°. Highest readings, 69° at Oran, 68° at Algiers, 67° at La Calle, and 65° at Lisbon, Nemours, and Constantinople. Lowest, 47° at Perpignan, 37° at Paris, 35° at Uleaborg, 34° at Moscow, and 33° at Riga. Maximum values reached in the afternoon, 86° at Sfax, 84° at Oran, 82° at La Calle, 81° at Algiers and Laghouat, 62° at Valencia, 61° at Brighton, 60° in London, 45° at several German stations and at St. Petersburg, 43° at Bodö and Haparanda.

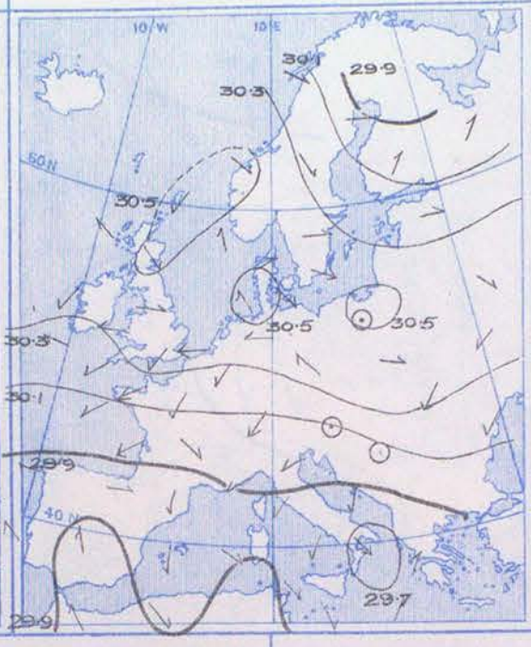
Wind in morning showing a general anticyclonic circulation round a high pressure system centred from the Baltic across central Russia, mainly Easterly over southern Europe, South-Easterly or Southerly in the west, and South-Westerly in the north. Blowing strongly on the Adriatic, and a moderate gale in the Vosges, moderate to very light everywhere else. In the evening a moderate Southerly gale at Athens and from North-East at Pesaro. Some increase of force also on Christiania Fjord and the Gulf of Finland. A light Northerly breeze setting in on our north-western coasts, but no other important change of direction or force during the day.

Barometer at 8 a.m. highest, above 30·4 ins. at Memel and Moscow. Lowest, below 29·6 ins. off the entrance to the Adriatic. By evening the highest readings on the shores of the Baltic, 30·5 ins. and upwards; the lowest, still below 29·6 ins., transferred to Greece.

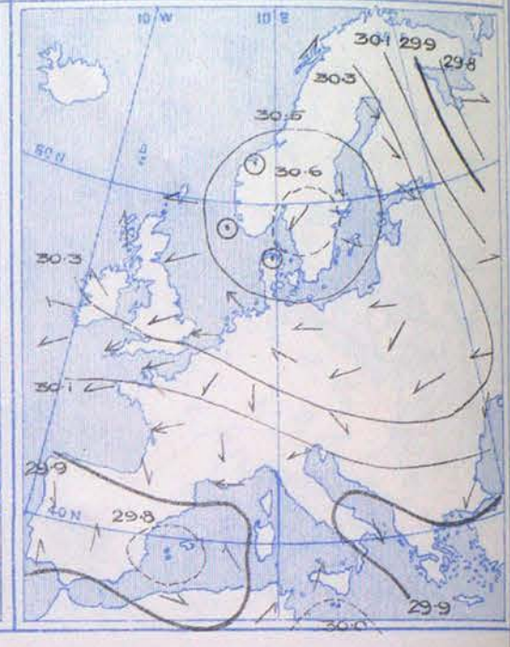
Saturday, 29th October, 1904.

Temperature and Weather. — 8 a.m.

Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over the east of England, the Low Countries, most parts of France, and in the north of Sweden, mostly cloudy or overcast elsewhere, with mist or fog at various home and foreign stations, and rain in a few isolated localities. In the course of the day considerable quantities of rain falling in the south of France, 0·5 in. at Croisette, 0·9 in. at Gap, and 1·1 ins. at Sicié, 0·5 in. also fell at Constantinople, little or none in other countries.

Temperature at 8 a.m. fallen in most parts of our Islands and generally over western and southern Europe, risen in most other districts. Highest readings, 71° at Oran, 67° at Algiers, 64° at Nemours, and 63° at Lisbon, Aumale, and Malta. Lowest, 46° at Rome and Leghorn, 38° at Nottingham, 35° at Brussels, and 34° at Haparanda. Afternoon maxima, 84° at Algiers, 82° at Sfax, 61° at Biarritz, 60° in London, 45° at St. Petersburg, Neu-Fahrwasser, Fanö, and Christiansund, 43° at Berlin and Swinemünde, and 37° at Haparanda.

Wind in morning mainly Westerly and North-Westerly over Scandinavia and northern Russia, and round the Ionian Sea, chiefly from between North-East and South-East over the rest of the area. A fresh or strong breeze reported at several home and foreign stations, but moderate to very light breezes prevailing. No important change of direction or force occurring during the day.

Barometer in morning highest, above 30·5 ins. from the north-east of Scotland to the west of Norway, and from Denmark across the Baltic. Lowest, below 29·7 ins. on the Ionian Sea, and below 29·9 ins. in Lapland. By evening the two high pressures amalgamating, the centre lying over southern Sweden, with readings above 30·6 ins. In the Mediterranean region low pressure centres, about 29·3 ins., near Brindisi and the Balearic Isles, and the Arctic depression moving eastward across the White Sea; barometer 29·8 ins. at Archangel.

IV.—GENERAL NOTES, etc.

During the first half of the period the distribution of pressure underwent considerable changes, owing to alternations of areas of high and of low pressure moving in various directions. A disturbance which appeared off the Norwegian coast, beyond the Arctic Circle, on the morning of the 25th followed an unusual course, travelling on about a south-south-east path across Scandinavia and the Baltic to Poland by the evening of the 26th, and on the following day apparently coalescing with another depression in the neighbourhood of the Ionian Sea. For the remainder of the week the Mediterranean region was covered by shallow low pressure systems, the rest of our area being almost entirely under the influence of anticyclones moving in from the Atlantic across our Islands and spreading eastward. Strong winds or moderate gales from the Westward were experienced on the 25th or 26th on our north-western and eastern coasts, and from South-East to South-West and North between the North Sea and Finland; and on the 27th and 28th from North-East to North-West and round to South between the Tyrrhenian Sea and Greece. With these exceptions the week was marked by a predominance of moderate or light breezes from all quarters, the prevailing direction over the greater part of the area being North-Easterly to South-Easterly. Much dull weather was experienced in most localities, mist or fog being frequently reported at many of the home and the continental stations. Rain fell at times nearly everywhere, but as a rule the amounts measured were not large. Snow fell locally in Scandinavia and Northern Russia. For the time of year temperature maintained a moderate level.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 254.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	3·9	− 11·4	6	− 18
STRATHPEFFER SPA	12·0	− 5·5	19	− 8
CRATHES	15·7	—	24	—
BALRUDDERY	19·0	—	29	—
EDINBURGH	15·6	− 0·1	24	0
COCKLE PARK	28·6	—	43	—
NEWCASTLE-on-TYNE	12·4	—	18	—
YORK	17·4	+ 1·3	26	+ 2
SKEGNESS	27·8	—	41	—
CROMER	30·6	—	45	—
LOWESTOFT	26·7	—	39	—
DUNMOW	37·2	—	55	—
SHEFFIELD	20·4	—	30	—
WORKSOP	20·5	+ 4·2	30	+ 6
THURCASTON	21·3	+ 4·0	31	+ 6
MARGATE	25·3	+ 4·0	37	+ 6
BROADSTAIRS	—	—	—	—
RAMSGATE	27·2	—	39	—
EASTBOURNE	37·3	+ 13·9	54	+ 20
BRIGHTON	35·3	+ 11·1	51	+ 16
WORTHING	35·9	—	52	—
BOGNOR	36·7†	—	53†	—
WESTBOURNE	32·3†	+ 9·9	47†	+ 14
VENTNOR HOSPITAL	35·3	+ 11·1	51	+ 16
BOURNEMOUTH	31·0	—	45	—
MARLBOROUGH	20·5	+ 1·4	30	+ 2
SOUTHPORT	23·5	—	35	—
RHYL	—	—	—	—
ABERDOVEY	35·0†	—	52†	—
TENBY	33·7	+ 12·7	50	+ 19
TORQUAY	29·3	+ 7·9	43	+ 12
NEWQUAY	40·3	+ 17·3	58	+ 25
GUERNSEY	33·7†	+ 11·4	48†	+ 16

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 28, page 164	Wisley	—	—	78·6	—	66·3	+ 3·7	170	—	—	—	—	—	—	—	—
" " "	Blackpool	—	—	—	53·8	61·9	+ 2·5	139	—	—	—	—	69·7	+25·2	61	+ 25
No. 29, page 170	Shaftesbury	—	—	—	54·5	63·2	+ 3·9	148	—	—	—	—	—	—	—	—
No. 30, page 176	Swarraton	—	—	—	55·5	61·9	+ 2·4	139	—	—	—	—	—	—	—	—
" " "	Markree Castle	—	—	—	56·3	61·3	+ 4·4	135	—	—	—	—	—	—	—	—
" " "	Roche's Point	—	—	—	—	—	—	—	—	6	0·49	− 0·25	—	—	—	—

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TWENTY-SEVENTH YEAR. Vol XXI. (New Series.) } No. 44. FORTY-FOURTH WEEK, ENDING SATURDAY, NOVEMBER 5TH, 1904. [Price 6d. Annual Subscription post paid £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS (See p. 260.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	55	30	50·3	42·3	46·3	3 above	30	+ 5	0	-13	2900	+ 70	490	-119
	1. SCOTLAND, EAST	60	31	52·3	42·2	47·3	4 above	37	+11	0	-16	2186	- 92	607	- 54
	2. ENGLAND, N.E.	63	37	53·3	45·7	49·5	4 above	53	+21	0	-10	2677	+186	442	- 83
	3. ENGLAND, EAST	59	41	53·2	45·5	49·4	4 above	52	+16	0	-11	2976	+ 92	404	-175
	4. MIDLAND COUNTIES	60	34	51·5	43·9	47·7	3 above	40	+ 6	0	-13	2735	- 90	494	-109
	5. ENGLAND, SOUTH	59	37	52·0	44·3	48·2	2 above	43	- 3	0	- 7	3039	-127	345	- 78
Principal Grazing Districts.	6. SCOTLAND, WEST	57	35	52·7	44·1	48·4	4 above	45	+14	0	- 9	2408	- 14	378	- 77
	7. ENGLAND, N.W.	59	32	52·3	45·8	49·1	3 above	50	+14	0	- 7	2633	- 32	388	- 36
	8. ENGLAND, S.W.	60	37	52·6	45·3	49·0	2 above	49	+ 4	0	- 5	2995	+ 34	252	- 71
	9. IRELAND, NORTH	56	32	52·4	43·9	48·2	3 above	43	+ 9	0	- 8	2434	-128	338	- 50
	10. IRELAND SOUTH	65	32	54·4	45·8	50·1	3 above	57	+14	0	- 7	2892	- 23	232	- 59
	— CHANNEL ISLANDS	59	37	55·6	47·3	51·5	0 (average)	67	+ 2	0	- 1	3514	+ 58	80	- 43

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 260.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	9	2 less	208	+19	42·8	+ 3·2	7	- 6	11	- 9	1122	+ 50	28	+ 1
	1. SCOTLAND, EAST	3	1	6 less	169	+ 6	22·3	- 3·6	12	- 4	20	- 7	1185	- 46	30	- 1
	2. ENGLAND, N.E.	2	1	5 less	137	-12	17·3	- 3·6	9	- 2	14	- 3	1345	- 19	34	- 1
	3. ENGLAND, EAST	2	1	5 less	135	-16	16·7	- 3·5	7	-11	11	-17	1550	+ 23	39	+ 1
	4. MIDLAND COUNTIES	2	1	5 less	145	+ 1	20·2	- 2·9	3	-13	4	-20	1305	+ 30	33	+ 1
	5. ENGLAND, SOUTH	2	1	6 less	149	+ 8	22·0	- 1·2	8	-10	12	-15	1521	+ 21	39	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	3	5	7 less	172	+ 4	40·5	0·0	11	- 5	17	- 8	1246	- 49	31	- 1
	7. ENGLAND, N.W.	2	1	8 less	161	+ 2	25·3	- 3·4	6	- 6	10	-10	1358	+116	34	+ 3
	8. ENGLAND, S.W.	1	1	9 less	162	+ 2	30·9	- 0·1	7	-12	10	-18	1447	- 96	37	- 2
	9. IRELAND, NORTH	4	2	6 less	209	+18	32·0	+ 2·1	9	- 7	14	-11	1166	- 21	29	- 1
	10. IRELAND, SOUTH	1	1	9 less	183	+12	33·9	+ 1·0	7	-12	11	-18	1343	- 10	34	0
	— CHANNEL ISLANDS	1	less than half	9 less	189	+25	29·2	+ 3·0	13	- 8	20	-12	1706	- 68	43	- 2

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather. The general condition of this week was both dull and dry. Very slight rain fell on a few occasions over the major part of the Kingdom, and more frequently in the extreme north and north-west.

Temperature was again above the mean exept in the Channel Islands, the excess being 4° in Scotland E. and W., and England N.E. and E. The highest of the maxima were recorded at most stations on the 3rd, and ranged from 65° in England S. and 63° in England N.E., to 56° in Ireland N., and to 55° in Scotland N. The lowest of the minima occurred either on Sunday or Monday at most stations, but towards the end of the week at others. They ranged from 30° in Scotland N., 31° in Scotland E., and 32° in Ireland and England N.W., to 41° in England E.

Rainfall was less than the mean in all districts. Except in the north and west of Scotland the amounts were extremely slight.

Bright Sunshine was very deficient, the percentage of the possible duration ranging from 20 in the Channel Islands and Scotland E., to about 10 or 11 in many other districts, and to 5 in the Midland Counties.

Barometer and Wind. During the greater part of the week the distribution of pressure was anticyclonic, the chief system moving slowly southwards over the Kingdom to France. Our extreme southern coasts were somewhat affected by depressions over the Bay of Biscay and its neighbourhood during the earlier part of the time. Towards the end of the week disturbances, having their centres in the far north, spread a good deal over our more northern districts, and caused the wind to increase in force from the Westward. During the earlier half of the period the winds were very light, and mainly from some Easterly point.

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II.—DATA from which the SUMMARY on page 259 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	50	38	48·9	40·6	44·8	+ 1·2	25	4	7	1·12	+ 0·16	*	*	*	*
	Stornoway	53	41	50·4	44·9	47·7	+ 4·0	40	0	6	0·59	− 0·61	6·0	− 7·6	10	− 13
	Wick	55	36	51·7	42·6	47·2	+ 3·5	36	0	5	0·47	− 0·19	*	*	*	*
	Lairg Ⓢ	55	37	49·3	39·9	44·6	+ 3·2	27	6	7	0·52	− 0·32	*	*	*	*
	Glencarron Ⓢ	53	39	49·7	43·5	46·6	+ 4·0	32	0	6	2·73	+ 0·59	*	*	*	*
	Fort Augustus Ⓢ	55	30	51·7	42·0	46·9	+ 3·2	34	0	3	0·04	− 0·93	6·5	− 1·9	11	− 3
1. SCOTLAND, E.	Nairn	56	33	52·0	40·9	46·5	+ 3·3	36	3	3	0·17	− 0·86	*	*	*	*
	Aberdeen	60	36	54·1	43·6	48·9	+ 4·8	48	0	3	0·06	− 0·64	9·8	− 6·8	16	− 11
	Braemar Ⓢ	55	31	49·8	38·7	44·3	+ 3·9	30	9	4	0·17	− 0·69	*	*	*	*
	Ochtertyre Ⓢ	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Leith	59	38	54·3	44·9	49·6	+ 4·3	53	0	1	0·01	− 0·46	*	*	*	*
	Marchmont Ⓢ	56	35	51·3	42·9	47·1	+ 4·3	36	0	2	0·05	− 0·73	12·4	− 2·6	20	− 4
2. ENGLAND, N.E.	Alnwick Castle	62	42	55·2	45·3	50·3	+ 5·8	58	0	3	0·05	− 0·70	*	*	*	*
	Durham	59	43	52·9	45·5	49·2	+ 5·2	50	0	0	0·00	− 0·64	7·1	− 8·4	11	− 13
	Shields	58	42	53·9	45·6	49·8	+ 4·6	55	0	1	0·02	− 0·54	*	*	*	*
	Scarborough Ⓜ	63	45	54·8	46·6	50·7	+ 4·9	61	0	2	0·02	− 0·66	16·1	—	25	—
	Spurn Head	55	46	54·0	48·0	51·0	+ 4·6	63	0	3	0·06	− 0·45	*	*	*	*
	Lincoln	57	42	52·0	45·2	48·6	+ 3·3	46	0	3	0·14	− 0·38	*	*	*	*
	Fulbeck (Lincolnshire)	56	37	50·3	43·4	46·9	+ 2·7	34	0	4	0·18	− 0·31	2·3	—	4	—
3. ENGLAND, E.	Hillington Ⓜ	55	43	52·5	45·3	48·9	+ 3·9	48	0	3	0·08	− 0·54	1·6	− 15·0	3	− 23
	Yarmouth	55	44	52·0	46·9	49·5	+ 3·2	53	0	1	0·03	− 0·62	*	*	*	*
	Geldeston	59	42	53·7	45·4	49·6	+ 3·4	53	0	1	0·08	− 0·50	7·4	− 11·6	11	− 18
	Cambridge	59	43	53·3	44·8	49·1	+ 3·7	50	0	3	0·06	− 0·41	8·3	− 10·2	13	− 16
	Felixstowe	57	45	54·6	46·3	50·5	+ 4·5	60	0	1	0·11	—	10·9	—	17	—
	Clacton-on-Sea	57	44	53·6	46·1	49·9	+ 4·1	55	0	2	0·05	—	11·8†	—	18†	—
	Rothamsted	57	41	52·2	43·5	47·9	+ 3·0	41	0	3	0·06	− 0·58	10·3	− 8·4	16	− 13
	Shoeburyness	57	41	53·9	46·0	50·0	+ 3·7	56	0	2	0·05	− 0·45	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	55	41	51·6	44·4	48·0	+ 4·0	42	0	1	0·04	− 0·63	5·3	—	8	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	56	38	51·6	44·4	48·0	+ 2·9	42	0	2	0·05	− 0·48	1·0	—	2	—
	Colly Weston (Stamford)	56	40	50·9	43·0	47·0	+ 2·0	35	0	3	0·11	− 0·47	*	*	*	*
	Cheadle Ⓜ	54	43	50·0	44·6	47·3	+ 3·6	37	0	0	0·00	− 0·72	*	*	*	*
	Birmingham (Edgbaston)	55	44	50·3	45·3	47·8	+ 2·7	41	0	2	0·06	− 0·53	0·2	—	0	—
	Shrewsbury	58	34	53·0	43·6	48·3	+ 2·8	44	0	0	0·00	—	*	*	*	*
	Hereford Ⓜ	60	40	52·1	44·8	48·5	+ 2·8	46	0	3	0·10	− 0·50	*	*	*	*
	Cirencester	57	39	52·1	41·3	46·7	+ 2·3	36	2	3	0·05	− 0·63	6·1	− 11·3	9	− 17
	Oxford	57	38	51·6	43·9	47·8	+ 2·9	41	0	5	0·09	− 0·44	6·4	− 11·2	10	− 17
5. ENGLAND, S.	London	57	43	53·1	44·7	48·9	+ 2·3	48	0	2	0·07	− 0·47	5·2‡	− 7·2‡	8‡	− 11‡
	Wisley (Surrey)	56	38	51·7	43·6	47·7	+ 0·9	40	0	3	0·10	—	7·7	—	12	—
	Swarraton (Alresford) Ⓜ	55	37	50·6	42·4	46·5	+ 1·5	32	0	2	0·06	− 0·68	*	*	*	*
	Tunbridge Wells Ⓜ	55	40	51·1	44·3	47·7	+ 2·7	40	0	3	0·31	—	9·7	—	15	—
	Dungeness	56	41	54·0	42·9	48·5	+ 0·5	46	0	3	0·12	− 0·52	7·3	—	11	—
	Hastings (St. Leonards)	55	43	52·1	45·7	48·9	+ 1·1	48	0	3	0·20	− 0·60	7·6	− 13·4	12	− 20
	Southampton	58	41	52·8	45·3	49·1	+ 1·5	50	0	2	0·03	− 0·71	6·9	− 12·4	11	− 19
	Portland Bill	59	45	53·4	46·3	49·9	+ 1·2	55	0	0	0·00	—	*	*	*	*
	Shaftesbury Ⓜ	56	42	49·4	43·1	46·3	+ 1·5	30	0	3	0·05	− 0·77	*	*	*	*
6. SCOTLAND, W	Laudale (Loch Sunart)	54	35	52·4	43·7	48·1	+ 2·8	43	0	4	1·68	− 0·12	*	*	*	*
	Glasgow	55	41	51·1	45·6	48·4	+ 4·3	45	0	4	0·12	− 0·75	6·4	− 3·7	10	− 6
	Cally Ⓢ	57	36	55·7	41·7	48·7	+ 4·4	48	1	5	0·44	− 0·72	*	*	*	*
	Aspatria	54	36	51·4	43·2	47·3	+ 3·3	37	0	2	0·21	—	14·6	—	23	—
	Douglas (Isle of Man)	55	40	52·9	46·5	49·7	+ 3·4	54	0	2	0·03	− 1·01	11·2	− 6·9	18	− 11
7. ENGLAND, N.W.	Newton Rigg	56	32	51·4	42·1	46·8	+ 4·1	34	0	3	0·06	—	16·9	—	27	—
	Stonyhurst	53	43	50·4	46·1	48·3	+ 3·6	44	0	4	0·07	− 1·00	6·2	− 7·8	10	− 12
	Blackpool Ⓜ	54	37	52·0	45·2	48·6	+ 2·8	46	0	2	0·05	− 0·80	10·4	− 3·9	16	− 6
	Manchester (Prestwich)	54	44	50·9	46·2	48·6	+ 3·6	46	0	2	0·13	− 0·71	3·1	—	5	—
	Liverpool Obsy. (Bidston)	54	43	52·1	46·4	49·3	+ 3·0	51	0	2	0·04	− 0·66	3·9	—	6	—
	Chester (Hawarden Bridge)	59	36	54·0	46·1	50·1	+ 3·4	57	0	1	0·03	—	*	*	*	*
	Llandudno Ⓜ	56	42	53·9	48·0	51·0	+ 3·0	63	0	1	0·01	− 0·81	8·4	− 6·8	13	− 11
	Holyhead	56	46	53·0	47·4	50·2	+ 1·8	57	0	2	0·04	− 0·89	*	*	*	*
	Bettws-y-Coed	57	34	52·7	44·9	48·8	+ 2·1	48	0	1	0·02	—	2·8	—	4	—
8. ENGLAND, S.W.	Llangammarch Wells	55	42	50·3	44·8	47·6	+ 3·8	39	0	3	0·13	—	1·0	—	2	—
	Pembroke	56	43	54·0	47·3	50·7	+ 1·5	61	0	1	0·16	− 0·75	2·8	− 15·3	4	− 23
	Cardiff	56	42	52·4	44·4	48·4	+ 1·0	45	0	2	0·05	—	*	*	*	*
	Clifton	56	39	52·0	44·6	48·3	+ 1·9	44	0	0	0·00	− 0·81	*	*	*	*
	Bath	57	40	52·4	43·7	48·1	+ 1·3	43	0	3	0·03	− 0·66	4·0	—	6	—
	Arlington (N. Devon)	54	37	51·3	43·3	47·3	+ 1·1	37	0	1	0·13	− 1·23	*	*	*	*
	Cullompton Ⓜ	57	39	52·3	44·2	48·3	+ 2·3	44	0	1	0·01	− 0·84	4·9	− 11·6	7	− 18
	Falmouth	56	47	53·9	48·2	51·1	+ 1·6	64	0	0	0·00	− 1·20	9·7	− 11·0	15	− 17
	Plymouth	60	40	54·7	46·9	50·8	+ 2·2	62	0	1	0·01	− 0·83	8·9	− 9·8	13	− 15
9. IRELAND, N.	Malin Head	54	40	52·9	45·6	49·3	+ 2·6	51	0	4	0·31	− 0·39	*	*	*	*
	Edenfel (Omagh)	53	33	50·6	40·9	45·8	+ 2·2	31	3	4	0·13	− 0·71	*	*	*	*
	Blacksod Point	55	39	53·0	45·0	49·0	+ 1·4	49	0	3	0·21	− 0·99	*	*	*	*
	Markree Castle	56	32	53·1	42·1	47·6	+ 2·6	39	0	4	0·40	− 0·53	8·4	− 7·5	13	− 12
	Armagh	56	33	52·0	43·1	47·6	+ 2·9	39	0	4	0·08	− 0·56	9·4	− 7·0	15	− 11
	Donaghadee	56	46	52·7	46·6	49·7	+ 3·4	54	0	3	0·09	− 0·64	*	*	*	*
10. IRELAND, S	Dublin	58	40	54·8	48·1	51·5	+ 4·4	67	0	1	0·01	− 0·60	4·7	− 15·5	7	− 24
	Birr Castle	56	32	52·7	42·3	47·5	+ 2·2	39	0	2	0·05	− 0·62	3·7	− 14·6	6	− 23
	Kilkenny	56	38	53·1	44·3	48·7	+ 2·4	47	0	1	0·07	− 0·63	*	*	*	*
	Waterford	57	41	55·6	47·0	51·3	+ 4·5	65	0	1	0·02	− 0·88	*	*	*	*
	Roche's Point	55	46	53·9	47·6	50·8	+ 2·1	62	0	1	0·02	− 1·01	*	*	*	*
	Valencia	57	37	54·6	45·0	49·8	+ 0·4	55	0	2	0·31	− 0·99	13·4	− 5·6	21	− 9
	Killarney	65	38	56·6	45·6	51·1	+ 3·5	64	0	0	0·00	− 1·38	*	*	*	*
	Foynes	59	40	53·5	46·7	50·1	+ 3·4	57	0	1	0·21	− 0·72	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	59	48	56·7	49·4	53·1	+ 1·6	78	0	0	0·00	− 0·84	14·2	− 7·2	21	− 11
	Jersey	57	37	54·4	45·1	49·8	− 0·9	55	0	1	0·01	− 0·94	15·9	− 6·5	24	− 10

Stations Marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

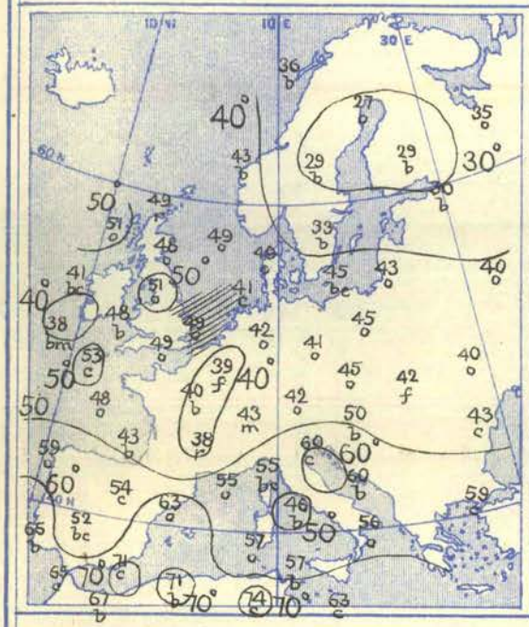
† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 33 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

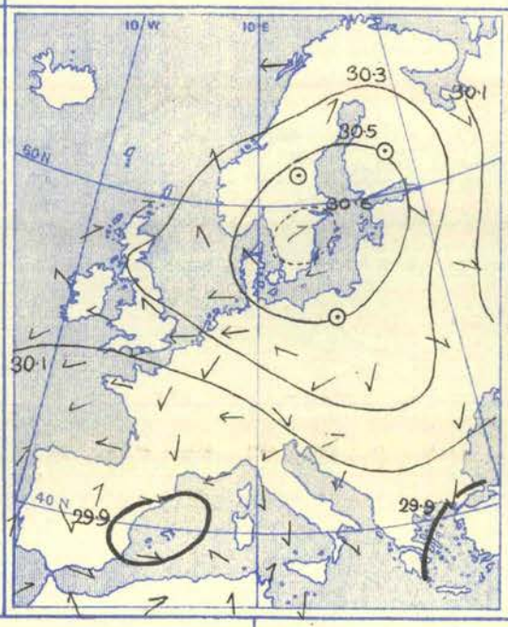
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 30th October, 1904.

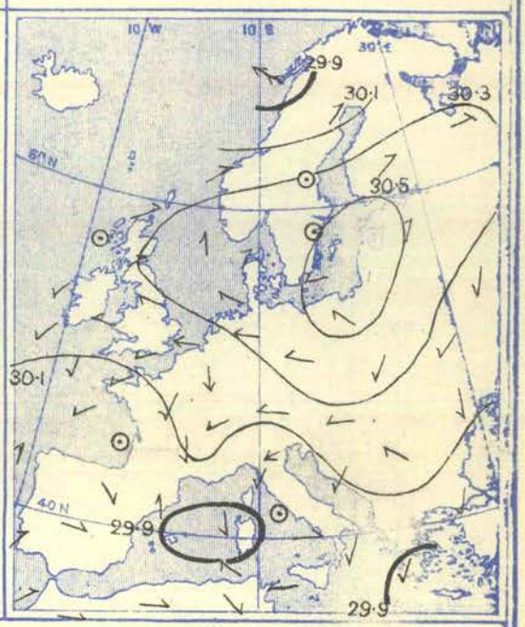
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very variable throughout the region under observation, clear and cloudless in many localities, overcast and dull in others, with gloom, mist or fog at some of the home and Continental stations, but rain reported only at Sumburgh Head, Copenhagen, and in the extreme south of France. During the day the rainfall was limited to very few districts, the only considerable amounts being 1·2 ins. at Gap, and 0·8 in. at Sicié and La Calle.

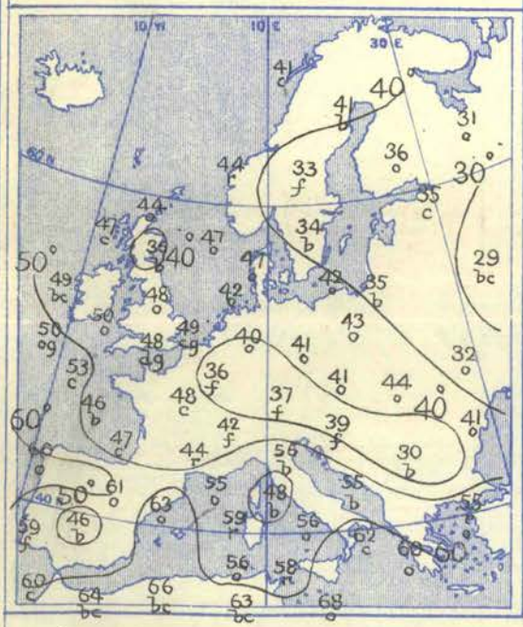
Temperature at 8 a.m. changed irregularly, but fallen rather decidedly at many stations in the west and north of our Islands and in Scandinavia and northern Russia. Highest readings, 74° at La Calle, 71° at Algiers and Alicante, 66° at Sfax, and 65° at Palma, Lisbon, and San Fernando. Lowest, 46° at Rome and Florence, 38° at Parsonstown and Valencia, 30° at St. Petersburg and Helsingfors, 29° at Hernösand and Kuopio, and 27° at Uleaborg. Afternoon maxima of 73° to 79° over Algeria, 79° at Sanguinaires, 73° at San Fernando, and 70° at Corunna and Lésina, 57° at Scilly and Valencia, 45° at Lyons, 43° at Hamburg and the Helder, and 41° at St. Petersburg, Haparanda and Hernösand.

Wind in morning North-Easterly to Easterly over the greater part of our area, between the Baltic and the northern shores of the Mediterranean, South-Westerly from the north of Scotland to Lapland, Southerly over the Spanish Peninsula and Algeria. The Easterly breeze blowing rather freshly on the lower part of the North Sea, in South Germany and on the south coast of France. A fresh Easterly gale at Bodö in the evening, no material change taking place elsewhere.

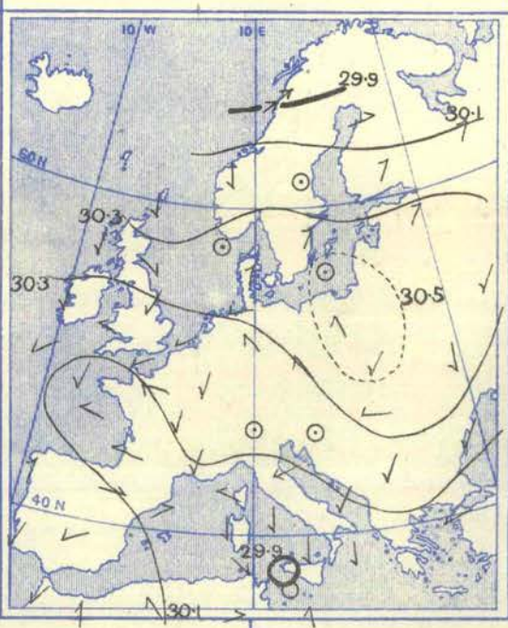
Barometer in morning highest, above 30·6 ins. in the south of Sweden, the anticyclone occupying the greater part of Europe. Lowest, below 29·9 ins. in two shallow depressions, one over the Gulf of Lyons, the other over Asia Minor. By the evening the anticyclonic core moving across the Baltic, with pressure above 30·5 ins. A new disturbance appearing off the Arctic coast of Norway, barometer below 29·9 ins.

Monday, 31st October, 1904.

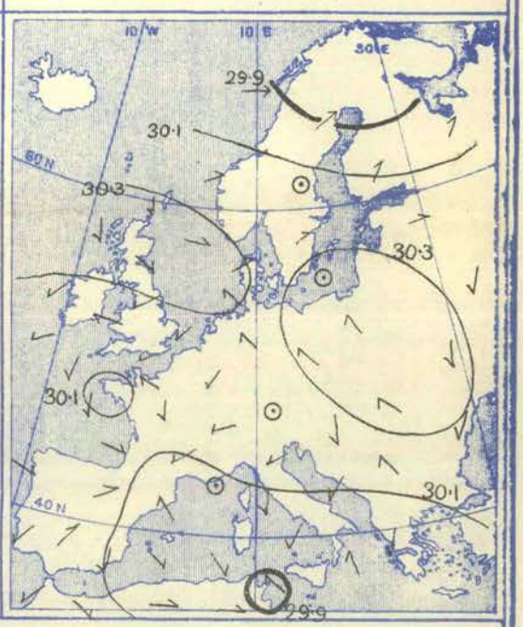
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy to overcast at the majority of stations within the region under observation. A drizzling rain falling over the inland districts of England; rain also reported at Wick and at various isolated stations on the Continent; the atmosphere misty in Ire'and, misty or foggy in several foreign localities, particularly between the north of France and Hungary. With the exception of 0·8 in. at Malta no important falls of rain occurring during the day, the weather becoming finer in many places.

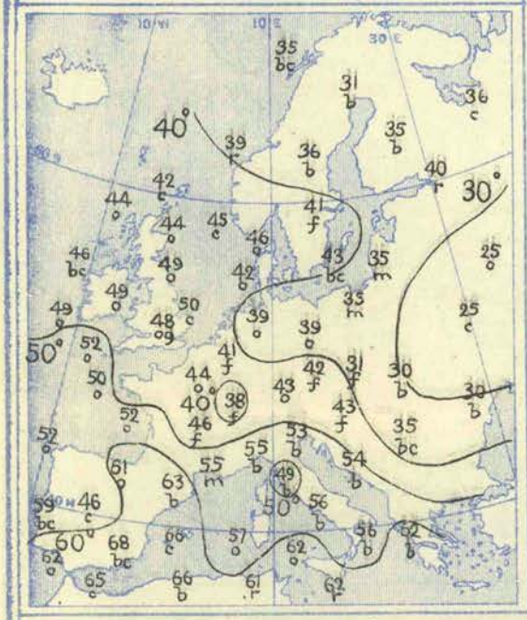
Temperature at 8 a.m. changed irregularly, some stations showing a rise or fall of more than 10°. Highest readings, 66° at Algiers, 64° at Oran, and 63° at Malta, La Calle and Barcelona. Lowest, 48° at Rome and Florence, 46° at Madrid, 36° at Aberdeen and 35° at Nairn, 31° at Archangel and Memel, 30° at Hermanstadt, and 29° at Moscow. Rising in the course of the day to 82° at Sfax, 79° at Algiers and Biskra, 77° at Alicante, Laghouat and Nemours, 75° at Palma and Patras, 48° at Stockholm and at various stations in the Low Countries, 41° at St. Petersburg and over northern Scandinavia, and 39° at Memel.

Wind in morning South-Westerly or Westerly over Scandinavia and northern Russia, mainly North-Easterly to South-Easterly over the rest of the area, a fresh gale blowing at Bodö, a strong breeze at Trieste and a fresh breeze at Nicolaieff, generally light elsewhere. By evening the South-Westerly current increasing to a strong breeze at Haparanda, the gale at Bodö moderating, and the wind at Trieste falling light. No other change of importance taking place either in direction or force.

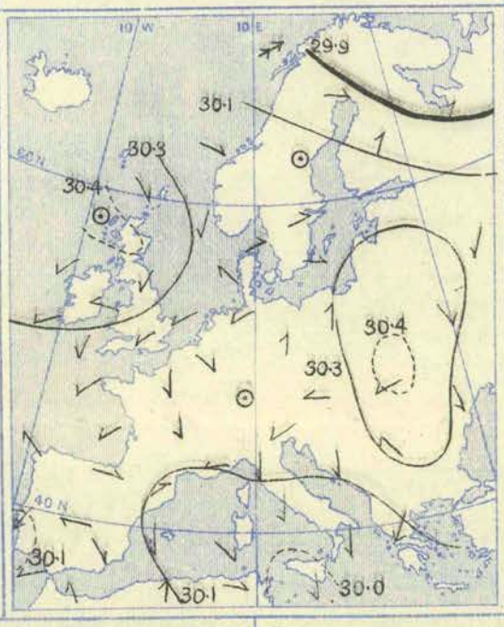
Barometer in morning highest, above 30·4 ins. over the Baltic and Poland; lowest, 29·00 ins. at Bodö and Palermo. During the day the Baltic anticyclone moving slowly southward; a new high pressure area, with readings above 30·3 ins., spreading in across Scotland and the North Sea. The Arctic depression moving eastward across Lapland, barometer below 29·9 ins. No material change over the Mediterranean region.

Tuesday, 1st November, 1904.

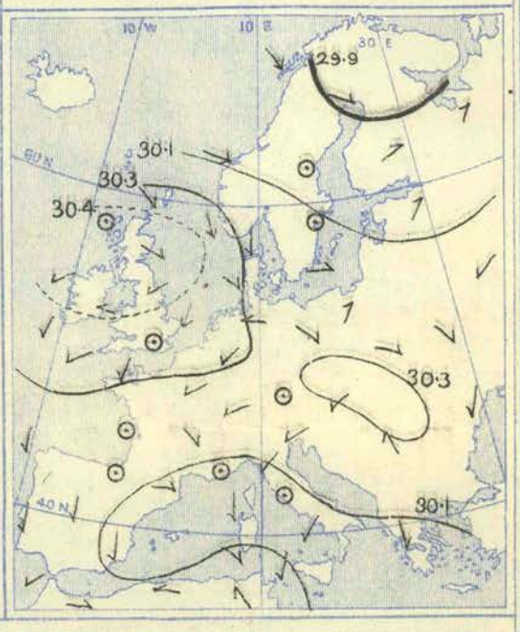
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine over northern Europe, south and south-west Russia, and Spain and the Adriatic, mostly dull and overcast elsewhere, gloomy, with a drizzling rain, over England, rain at some isolated foreign stations, mist or fog at various places in France, the Low Countries, central Europe, and on Christiania Fjord. Other than 0·4 in. at La Calle and 0·5 in. at Christiansund, only slight local rain falling in the course of the day, snow at Bodö.

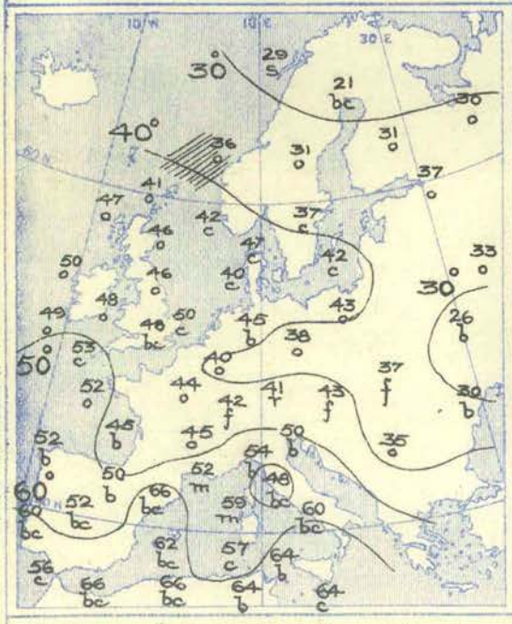
Temperature at 8 a.m. changed rather irregularly, fallen decidedly between the Baltic and Black Seas. Highest readings, 68° at Alicante, 66° at Algiers and Palma, 63° at Barcelona and Nemours, and 62° at San Fernando, Malta, Palermo, and Patras. Lowest, 46° at Madrid, 39° at Wick, 30° at Lemberg and Odessa, 28° at Warsaw, and 25° at Moscow and Kiev. In the afternoon rising to 79° at Sanguinaires and La Calle, 77° at Alicante, Biskra and Nemours, 75° at Oran and Sfax, 56° at Plymouth and Scilly, 39° at Cracow, 37° at Haparanda, and 35° at Bodö.

Wind in morning very variable, under the influence of several systems of high and of low pressure. A fresh South-Westerly gale reported at Bodö, and a fresh or strong Northerly wind over Greece and at Lisbon, calms and light breezes being in the ascendant in most other localities. In the course of the day moderating in the districts already mentioned, but a strong Westerly gale springing up at Christiansund, and a fresh Northerly breeze at Skudesnaes and Yarmouth. Continuing light elsewhere.

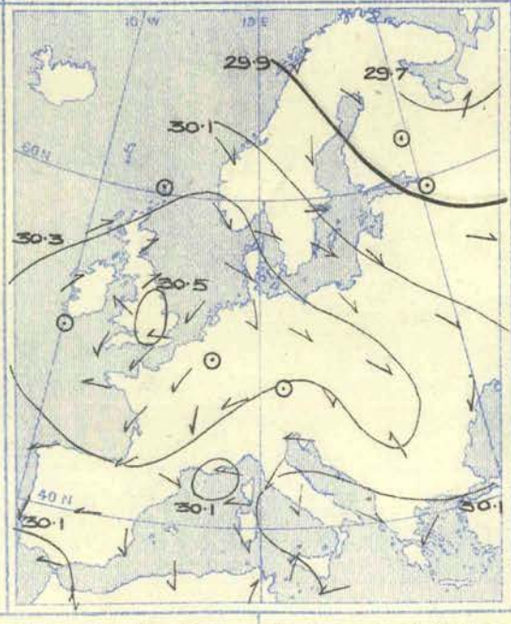
Barometer at 8 a.m. highest, above 30·4 ins. in the north of Scotland and over Galicia. Lowest, below 29·9 ins. over Lapland and the White Sea, and below 30·0 ins. over Sicily and Malta. By evening rising above 30·4 ins. over nearly the whole of the British Isles, the Galician Anticyclone being somewhat reduced in intensity. No material alteration taking place in the low pressure over the extreme north of Europe, and the Sicilian low pressure filling up.

Wednesday, 2nd November, 1904.

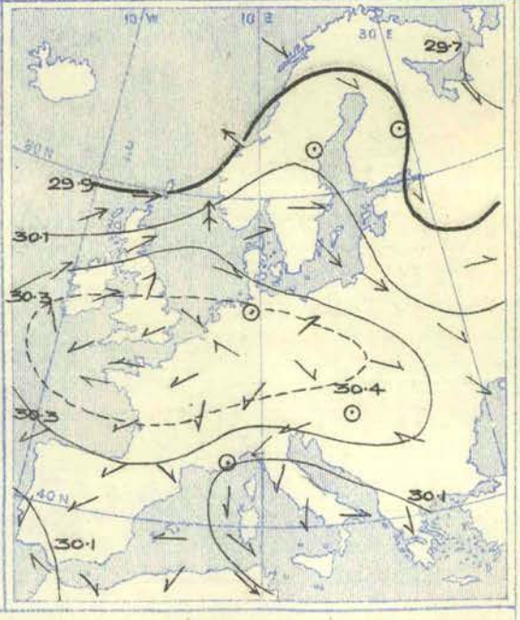
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fair or fine generally over southern Europe, Algeria and southern Russia, elsewhere mainly cloudy to overcast, with rain at Munich and Nice, snow at Bodö, and drizzle at Oxford. Misty at several stations in the British Isles, foggy between the Vosges and Galicia. Very few localities experiencing rain during the day, the most considerable falls being 0·4 in. at Sumburgh Head and 0·5 in. at Christiansund. The sky clearing over Sweden and Finland.

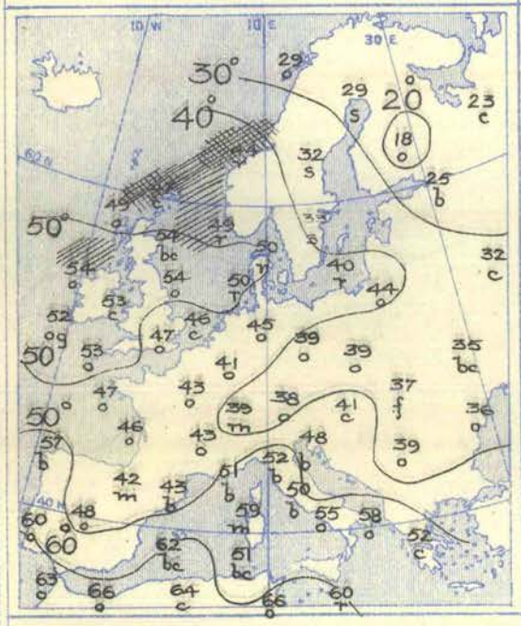
Temperature at 8 a.m. fallen over northern Europe, risen over the Spanish Peninsula, changed somewhat irregularly elsewhere. Highest readings, 70° at Alicante, 69° at Sfax, 66° at San Fernando, Barcelona, Algiers and Oran. Lowest, 48° at Rome, Florence and Nice, 28° at Charkow and Bodö, 26° at Kiev, and 21° at Haparanda. During the day attaining a maximum of 79° at Laghouat and Nemours, 77° at Biskra, 75° at Sanguinaires, San Fernando, La Calle and Sfax, 73° at Lisbon, 58° at Aberdeen, 56° at Nairn, 34° at Hernösand, 29° at Bodö and Haparanda.

Wind in morning blowing fresh or strong from the North-Westward at Skagen and Wisby, and from the North-Eastward at Lisbon, calms and light breezes from various directions being reported nearly everywhere else. Later freshening from the South-Westward in the north of Scotland, and blowing a gale in the night. Increasing to a strong breeze from South-East at Christiansund and from North-West at La Calle, a fresh gale from South at Skudesnaes and from North-West at Wisby, remaining light generally.

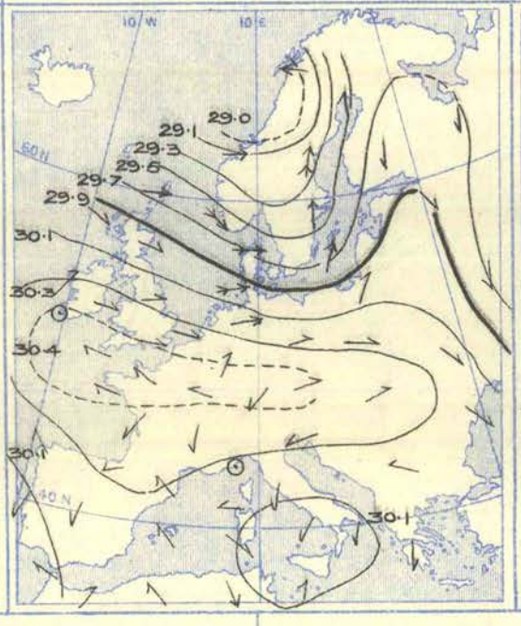
Barometer in morning highest, above 30·5 ins. over central and western England, and above 30·3 ins. over the greater part of western Europe and as far east as the Carpathians. Lowest, below 29·7 ins. on the White Sea. Towards evening falling rapidly over the northern portion of the United Kingdom, below 29·9 ins. in the Shetlands, the situation over the rest of our area undergoing very slight modification.

Thursday, 3rd November, 1904.

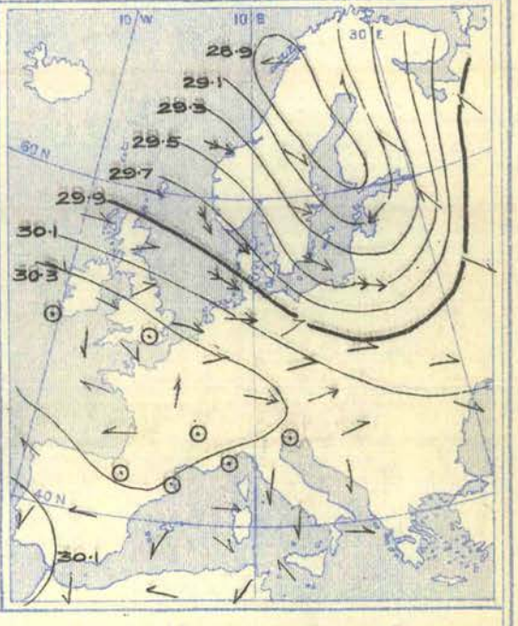
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning locally fair or fine and clear, but generally cloudy to overcast, with a misty, gloomy atmosphere in many places, rain or snow over nearly the whole of Denmark and Scandinavia, rain also at Malin Head and Malta. Subsequently the sky clearing in most parts of France, Spain, Italy and southern Russia, the rain area extending to the Shetlands and North Holland, and snow spreading over northern Russia. At Lisbon 1·4 ins. of rain reported, and at Memel 0·6 in.; much smaller amounts elsewhere.

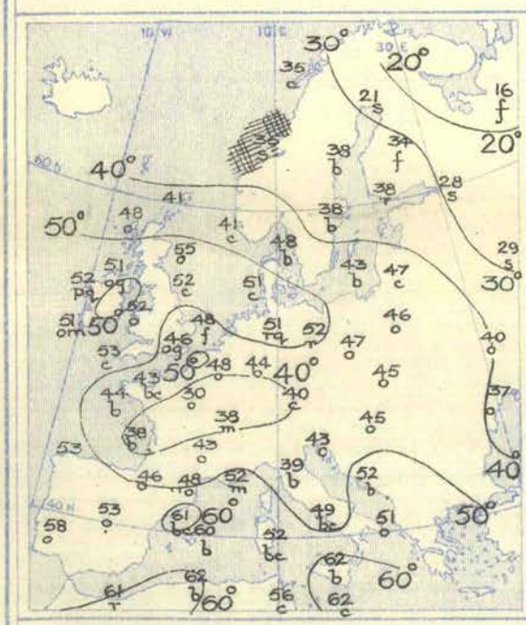
Temperature at 8 a.m. fallen over south-western and north-eastern Europe and in Algeria, risen over the rest of our area. Highest readings, 66° at Oran and Sfax, 64° at Nemours and Algiers, 63° at Oporto, Barcelona and San Fernando. Lowest, 32° and under in northern Scandinavia and most parts of Russia, 23° at Archangel, 18° at Kuopio, and 17° at Uleaborg. Rising during the day to 79° at Sfax, 77° at Sanguinaires and Nemours, 75° at Biskra and La Calle, 60° at Aberdeen, 62° at Scarborough, 35° at Bodö, 34° at St. Petersburg, and 30° at Haparanda.

Wind in morning cyclonic, Westerly to Southerly and Easterly over north-western Europe, and blowing a moderate gale on our own northern coasts, a fresh or strong gale over Denmark and Scandinavia. Mostly light from various directions over Russia and the southern portions of our area, but blowing freshly from North-East at Trieste and from South-East at Oporto, and strongly from North-West at La Calle. Later moderating at our home stations, but Westerly to North-Westerly strong winds and gales continuing between the North Sea and the Baltic.

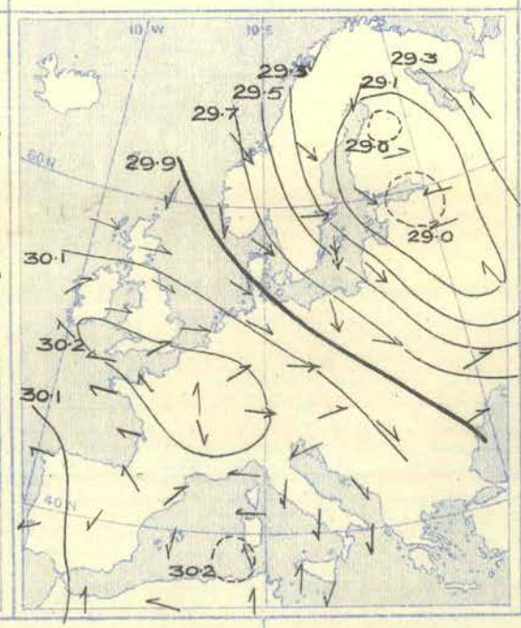
Barometer in morning highest, above 30·4 ins. in a narrow belt extending from our south-western coasts eastward to Bohemia. Lowest, 28·9 ins. in a deep depression on the coast of Norway, below 29·7 ins. over eastern Russia. Falling somewhat in the course of the day, the apex of the anticyclone, 30·4 ins., being limited to the north of France; the centre of the depression, below 28·9 ins., extending from the north of Norway down to the Gulf of Finland.

Friday, 4th November, 1904.

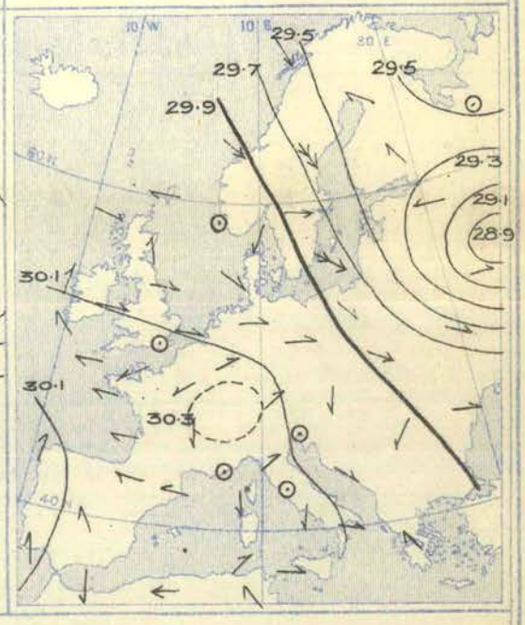
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright along the west coast of France and in many parts of southern Europe and Scandinavia; cloudy or overcast as a whole, with showers at Blacksod Point, rain at Nemours, Berlin and Hangö, and snow in the north of Sweden, at Christiansund, St. Petersburg and Moscow. Slight rain experienced later in the north and west of our Islands and at various Continental stations, but weather during day fair as a whole.

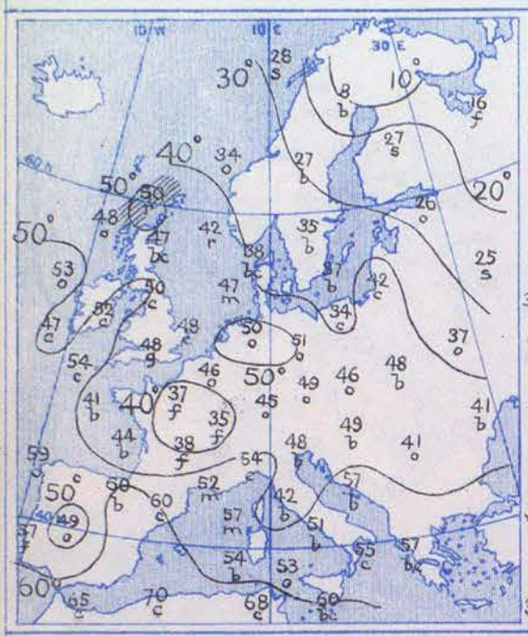
Temperature risen in many parts of central and northern Europe, falling over Italy, France, and Norway. Morning readings highest, 63° at Algiers, Palma, and Palermo, and above 50° over the Spanish Peninsula and at most of our own stations. Lowest, 16° at Archangel, 21° at Haparanda, 29° at Moscow, 30° at Paris, 39° at Florence, and 42° at Rome. Rising later to 59° at Scarborough, to above 66° in the south of France and the south of Europe generally, and to above 70° in Algeria and Tunis. Frost continuing all day in the far north of Europe.

Wind in morning circulating cyclonically around Finland, the North-Westerly current being strong to a gale over Scandinavia and the Baltic. A light to moderate anticyclonic movement prevailing over the south-western parts of our area. Little change occurring later.

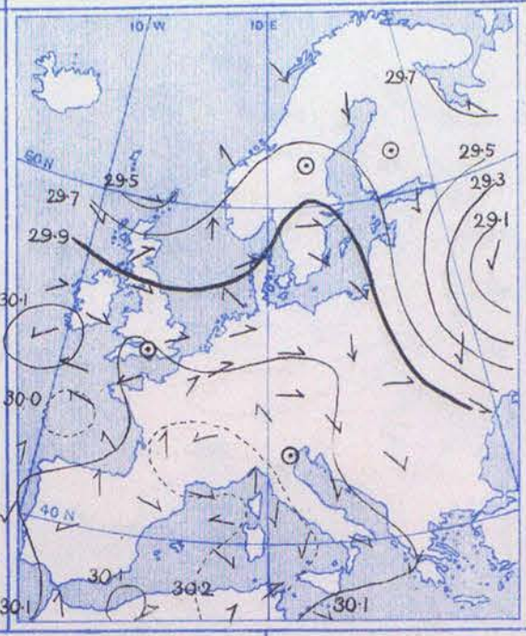
Barometer at 8 a.m. ranging from above 30·3 ins. in an anticyclone over the south-west of our Islands and a good part of France, to less than 29·0 ins. in a deep depression centred over the Gulf of Finland. Latter system moving eastwards during day and gradients becoming steep over the southern half of Russia. Barometer falling slowly over our Islands and their neighbourhood, and the anticyclonic centre taking up a position further to the eastward. A small shallow secondary disturbance appearing near the Shetlands.

Saturday, 5th November, 1904.

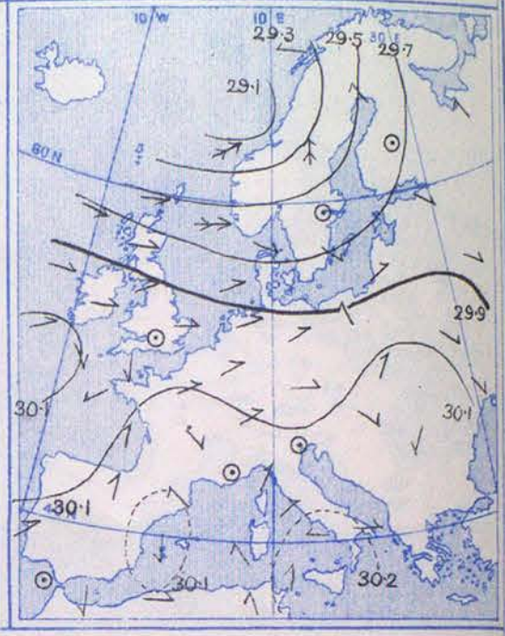
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine in many parts of southern Europe, and also in Sweden and the west of France; cloudy or overcast over our area generally, with fog in the inland districts of France, rain in the Shetlands, and snow in the north of Norway, at Kuopio, and Moscow. Slight rain experienced later over the north and west of our Islands, and larger amounts in a few Continental localities—as much as 0·95 in. at Biarritz.

Temperature fallen as a whole, but risen over Italy and in some other southern localities. Morning readings highest, 70° at Algiers, 60° at Malta, Biarritz, and Barcelona, and 59° at Corunna. Lowest, (1) 8° at Haparanda, 16° at Archangel, and below 32° in most parts of northern Europe, (2) 28° at Le Mans and 30° at Limoges, (3) 41° at Hermanstadt, and (4) 42° at Rome. Remaining as low as 43° all day at Paris, but rising to nearly 60° at some of our own stations, to about 70° in the south of Spain, and some degrees higher over Algeria.

Wind in morning varying a good deal in direction, but generally light or moderate in force. Mainly Westerly over our Islands, Southerly in the south-west of Norway, and Northerly to Westerly over Russia. Easterly over Brittany and at Scilly, and South-Easterly in the south-west of France. Increasing to a gale between South and West over Scandinavia later, and to a strong breeze or moderate gale on our own most northern coasts.

Barometer at 8 a.m. highest, above 30·2 ins., in an irregularly shaped area extending from the east of France to Tunis. Lowest, less than 29·1 ins. in a depression centred near Moscow. Relatively low in a depression off the north of Scotland and in a very shallow system over the northern part of the Bay of Biscay. Latter dispersing during day, but the system in the north moving eastwards to the north-west of Norway, and apparently increasing in size and depth.

IV.—GENERAL NOTES, etc.

At the commencement of the week pressure was highest in an anticyclone centred over Sweden and depressions were found over the southern parts of our area only. But the high pressure system soon moved south-eastwards, and other anticyclones moving eastwards from the Bay of Biscay or across the United Kingdom, the highest pressures became established over the central portion of our area with depressions both to the north and south. The most important disturbance of the week appeared over Scandinavia on Thursday, and travelling eastward, produced very rough weather over the whole of northern Europe—gales from various directions were general and the falls of snow or rain very considerable. In the rear of this system the temperature fell to many degrees below the freezing point over the most northern regions and continued low during the remainder of the week. Over the United Kingdom and also in some southern localities temperature was high for the time of year, but some cold days were experienced over Italy and also in the neighbourhood of Paris. In Algeria and Tunis the thermometer continued high, the maximum temperatures being generally some degrees above 70° and sometimes nearly 80°. The weather varied a good deal over the southern half of Europe, but rain was neither general nor frequent and the sky was often clear.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 260.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	8·0	- 4·6	13	- 8	SHEFFIELD	2·3	—	4	—	WESTBOURNE †	5·9†	- 13·5	9†	- 21
STRATHPEFFER SPA	6·1	- 8·3	10	- 14	WORKSOP	0·5	- 13·7	1	- 21	VENTNOR HOSPITAL †	9·4	- 11·0	14	- 17
CRATHES	13·4	—	22	—	THURCASTON	0·1	- 15·3	0	- 24	BOURNEMOUTH	9·6	—	15	—
BALRUDDERY	14·3	—	23	—	MARGATE	12·8	- 5·7	19	- 9	MARLBOROUGH	6·1	- 10·3	9	- 16
EDINBURGH	10·5	- 3·3	17	- 5	BROADSTAIRS	—	—	—	—	SOUTHPORT †	7·7	—	12	—
COCKLE PARK	7·2	—	11	—	RAMSGATE	13·0	—	20	—	RHYL †	4·7	—	7	—
NEWCASTLE-on-TYNE	4·0	—	6	—	EASTBOURNE	7·4	- 12·6	11	- 19	ABERDOVEY †	4·6†	—	7†	—
YORK	17·2	+ 3·9	27	+ 6	BRIGHTON	8·9	- 11·8	14	- 18	TENBY †	4·0	- 14·4	6	- 22
SKEGNESS	4·7	—	7	—	WORTHING	9·0	—	14	—	TORQUAY †	7·8	- 10·9	12	- 17
CROMER	1·6	—	3	—	BOGNOR †	10·6†	—	16†	—	NEWQUAY †	9·1	- 11·9	14	- 18
LOWESTOFT	7·5	—	12	—						GUERNSEY †	10·0†	- 9·5	15†	- 14
DUNMOW	10·1	—	16	—										

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 30, page 180	Skegness	—	—	—	—	—	—	—	—	—	—	—	24·0	—	22	—
No. 31, page 182	Hereford	—	—	—	54·2	63·4	+ 3·2	150	—	—	—	—	—	—	—	—
" " "	Tunbridge Wells	—	—	—	—	—	—	—	—	1	0·16	—	—	—	—	—
" " "	Portland Bill	—	—	—	—	—	—	—	—	2	0·34	—	—	—	—	—
" " "	Stonyhurst	—	—	—	55·6	62·4	+ 4·3	143	—	—	—	—	—	—	—	—
" " 186	York	—	—	—	—	—	—	—	—	—	—	—	51·3	+ 15·8	48	+ 15

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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TWENTY-SEVENTH YEAR. *Vol. XXI. (New Series.)* No. 45. FORTY-FIFTH WEEK, ENDING SATURDAY, NOVEMBER 12TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS (See p. 266.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	52	23	44·5	33·0	38·8	3 below	7	−14	34	+19	2007	+ 56	524	−100
	1. SCOTLAND, EAST	54	24	45·7	33·5	39·6	2 below	10	−11	32	+13	2196	−103	639	− 41
	2. ENGLAND, N.E.	60	31	51·6	38·8	45·2	1 above	36	+10	9	− 3	2713	+196	451	− 86
	3. ENGLAND, EAST	61	34	54·2	41·9	48·1	4 above	43	+12	0	−13	3019	+104	404	−188
	4. MIDLAND COUNTIES	62	32	53·4	40·6	47·0	3 above	41	+12	4	−11	2776	− 78	498	−120
	5. ENGLAND, SOUTH	61	33	55·1	44·3	49·8	4 above	55	+15	0	− 8	3094	−112	345	− 86
Principal Grazing Districts.	6. SCOTLAND, WEST	58	29	49·0	38·2	43·7	0 (average)	28	+ 1	11	0	2436	− 13	389	− 77
	7. ENGLAND, N.W.	60	31	52·3	42·0	47·2	2 above	36	+ 5	0	− 8	2669	− 27	388	− 44
	8. ENGLAND, S.W.	60	34	55·0	44·9	50·0	4 above	56	+15	0	− 6	3051	+ 49	252	− 77
	9. IRELAND, NORTH	57	33	51·7	41·4	46·6	2 above	35	+ 5	2	− 8	2469	−123	340	− 58
	10. IRELAND SOUTH	61	35	54·7	44·5	49·6	3 above	53	+14	0	− 8	2945	− 9	232	− 58
	— CHANNEL ISLANDS	60	37	57·6	48·0	52·8	3 above	76	+16	0	− 1	3590	+ 74	80	− 44

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 266.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	13	2 more	214	+20	44·1	+ 3·3	15	+ 5	27	+10	1137	+ 56	28	+ 1
	1. SCOTLAND, EAST	5	5	1 less	174	+ 7	22·8	− 3·8	20	+ 5	35	+ 9	1205	− 41	30	− 1
	2. ENGLAND, N.E.	5	7	1 more	142	−12	18·0	− 3·5	16	+ 1	26	+ 2	1361	− 18	34	0
	3. ENGLAND, EAST	5	9	3 more	140	−15	17·6	− 3·2	18	+ 1	30	+ 1	1568	+ 29	39	+ 1
	4. MIDLAND COUNTIES	5	10	5 more	150	+ 3	21·2	− 2·4	12	0	20	0	1317	+ 30	33	+ 1
	5. ENGLAND, SOUTH	5	12	5 more	154	+10	23·2	− 0·7	18	+ 2	29	+ 3	1539	+ 23	38	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	6	18	5 more	178	+ 6	42·3	+ 0·6	13	+ 1	22	+ 1	1259	− 48	31	− 1
	7. ENGLAND, N.W.	6	19	10 more	167	+ 4	27·2	− 2·4	9	− 1	15	− 1	1367	+116	34	+ 3
	8. ENGLAND, S.W.	6	19	10 more	168	+ 4	32·8	+ 0·9	14	− 3	21	− 4	1461	− 99	36	− 3
	9. IRELAND, NORTH	7	17	8 more	216	+21	33·7	+ 2·9	9	− 6	14	−10	1175	− 26	29	− 1
	10. IRELAND, SOUTH	6	14	4 more	189	+13	35·3	+ 1·4	8	−10	12	−15	1351	− 19	34	0
	— CHANNEL ISLANDS	6	4	5 less	195	+27	29·6	+ 2·5	12	− 6	19	−10	1718	− 75	43	− 2

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this period was very unsettled and wet in almost all parts of the Kingdom. There were, however, some very bright intervals, especially in the eastern parts of Great Britain.

Temperature was above the mean over England and Ireland, but only just equal to it in Scotland W. and 2° or 3° below it in Scotland E. and N. The highest of the maxima were registered on the 9th, and ranged from 62° in the Midland Counties and 61° in England S. and E. to 54° in Scotland E. and to 52° in Scotland N. The lowest of the minima were recorded during the earlier half of the week, when the thermometer fell to 23° or 24° in the north and east of Scotland and to below 35° over the Kingdom generally. In the Channel Islands the lowest reading was 37°.

Rainfall was more than the mean in all districts except Scotland E. and the Channel Islands, the excess was only slight in the north of Scotland and north-east of England, but very considerable or large over the Kingdom generally. In England N.W. and S.W. the total fall was more than twice as much as the average.

Bright Sunshine did not differ materially from the mean over the country as a whole, but was somewhat in excess in the wheat-producing, and deficient in most of the grazing districts. The percentage of the possible duration ranged from 35 in Scotland E. and 30 in England E. to 15 in England N.W., and 14 and 12 respectively in Ireland N. and S.

Barometer and Wind. The United Kingdom lay in the direct path of some important depressions from the Atlantic. The first system travelled eastwards over Ireland and England on Monday and subsequently north-eastwards to Scandinavia, and its passage was attended by gales from West and North-West very generally. The centre of the next disturbance had advanced to the north of Scotland by Wednesday morning, but gradients were steepest over Ireland and England, and in those regions a fresh to very strong Westerly gale was experienced. This system appeared to move on to the North Sea and disperse. The depressions which came over our Islands later in the week were less deep, and the accompanying winds of little strength.

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II.—DATA from which the SUMMARY on page 265 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	49	32	44·1	35·3	39·7	− 3·1	6	25	6	0·61	− 0·35	*	*	*	*
	Stornoway	52	28	46·4	34·1	40·3	− 2·6	12	31	7	1·92	+ 0·71	14·4	+ 3·2	25	+ 6
	Wick	49	28	44·7	32·4	38·6	− 3·9	8	36	5	1·22	+ 0·57	*	*	*	*
	Lairg 𝔖	50	23	44·1	30·6	37·4	− 2·9	6	42	5	1·03	+ 0·20	*	*	*	*
	Glencarron 𝔖	50	24	43·3	32·2	37·8	− 3·8	4	36	6	2·59	+ 0·41	*	*	*	*
	Fort Augustus 𝔖	51	24	44·3	33·1	38·7	− 3·8	6	33	5	0·40	− 0·60	7·2	+ 1·1	12	+ 2
1. SCOTLAND, E.	Nairn	52	27	45·9	31·9	38·9	− 3·2	11	38	5	0·56	+ 0·04	*	*	*	*
	Aberdeen	50	31	46·0	34·7	40·4	− 2·5	11	29	5	0·22	− 0·48	26·0	+ 11·7	45	+ 20
	Braemar 𝔖	47	24	41·7	30·3	36·0	− 3·3	0	42	4	0·52	− 0·34	*	*	*	*
	Ochtertyre 𝔖	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Leith	54	34	48·4	36·4	42·4	− 1·7	26	16	5	0·57	+ 0·10	*	*	*	*
	Marchmont 𝔖	52	31	46·7	34·1	40·4	− 1·2	13	31	5	0·75	− 0·02	14·9	+ 1·5	25	+ 3
2. ENGLAND, N.E.	Alnwick Castle	56	31	50·8	36·6	43·7	+ 0·3	35	15	5	0·86	+ 0·11	*	*	*	*
	Durham	58	33	48·9	36·1	42·5	− 0·3	28	17	5	0·70	+ 0·08	13·5	0·0	23	0
	Shields	56	33	50·1	34·9	42·5	− 1·8	33	20	5	1·25	+ 0·71	*	*	*	*
	Scarborough 𝔐	59	37	53·1	40·5	46·8	+ 2·1	40	4	6	1·11	+ 0·44	17·9	—	29	—
	Spurn Head	60	40	53·9	43·0	48·5	+ 3·3	46	0	5	0·52	+ 0·01	*	*	*	*
	Lincoln	60	36	52·0	40·6	46·3	+ 1·8	36	4	5	0·30	− 0·18	*	*	*	*
	Fulbeck (Lincolnshire)	59	37	52·5	39·8	46·2	+ 3·5	39	6	5	0·29	− 0·18	14·7	—	24	—
3. ENGLAND, E.	Hillington 𝔐	60	35	53·1	38·6	45·9	+ 2·2	42	10	5	0·54	− 0·06	14·8	+ 0·4	24	+ 1
	Yarmouth	60	39	52·7	42·7	47·7	+ 2·8	40	0	5	0·48	− 0·17	*	*	*	*
	Geldeston	60	38	54·2	41·2	47·7	+ 2·9	43	2	5	0·92	+ 0·34	17·5	+ 1·1	28	+ 2
	Cambridge	61	36	54·9	41·2	48·4	+ 4·4	45	0	5	0·74	+ 0·29	16·9	+ 0·7	27	+ 1
	Felixstowe	59	34	55·5	42·1	48·8	+ 4·3	48	0	5	1·09	—	18·8	—	30	—
	Clacton-on-Sea	58	40	53·7	43·1	48·4	+ 3·8	45	0	5	0·99	—	23·1†	—	37†	—
	Rothamsted	60	39	54·8	41·9	48·4	+ 4·8	45	0	5	1·31	+ 0·68	17·5	+ 1·3	28	+ 2
	Shoeburyness	59	40	55·0	43·4	49·2	+ 4·1	50	0	5	0·95	+ 0·46	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	56	33	50·8	38·7	44·8	+ 2·0	33	9	6	1·84	+ 1·19	14·8	—	24	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	60	32	53·6	39·1	46·4	+ 2·6	43	8	5	0·49	− 0·01	10·9	—	18	—
	Colly Weston (Stamford)	62	36	53·9	40·0	47·0	+ 2·2	43	6	6	0·80	+ 0·24	*	*	*	*
	Cheadle 𝔐	57	35	51·3	39·5	45·4	+ 2·8	34	7	5	1·48	+ 0·79	*	*	*	*
	Birmingham (Edgbaston)	59	39	53·2	41·5	47·4	+ 3·5	40	1	4	0·80	+ 0·24	12·5	—	20	—
	Shrewsbury	59	40	54·7	42·3	48·5	+ 4·1	46	0	4	0·55	—	*	*	*	*
	Hereford 𝔐	59	38	54·3	41·9	48·1	+ 3·5	43	0	5	0·92	+ 0·34	*	*	*	*
	Cirencester	58	33	54·2	39·1	46·7	+ 3·5	45	8	5	1·27	+ 0·60	15·0	+ 0·1	24	0
	Oxford	58	39	54·6	43·0	48·8	+ 4·8	48	0	5	1·19	+ 0·66	13·6	− 1·6	22	− 3
5. ENGLAND, S.	London	60	41	55·0	43·6	49·3	+ 4·0	51	0	5	1·33	+ 0·80	12·8‡	+ 2·7‡	20‡	+ 4‡
	Wisley (Surrey)	58	40	54·6	43·9	49·3	+ 3·5	51	0	5	1·17	—	17·4	—	28	—
	Swarraton (Alresford) 𝔐	58	33	54·5	42·0	48·3	+ 4·5	44	0	5	1·19	+ 0·46	*	*	*	*
	Tunbridge Wells 𝔐	57	39	54·1	42·2	48·2	+ 4·1	43	0	5	1·53	—	21·5	—	34	—
	Dungeness	58	39	55·0	43·1	49·1	+ 2·6	50	0	6	0·99	+ 0·38	20·8	—	33	—
	Hastings (St. Leonards)	59	39	55·5	45·6	50·6	+ 4·0	60	0	5	1·12	+ 0·36	21·9	+ 3·5	35	+ 6
	Southampton	61	39	57·3	45·4	51·4	+ 5·1	66	0	5	0·88	+ 0·14	19·8	+ 3·5	31	+ 6
	Portland Bill	58	47	56·6	49·3	53·0	+ 5·2	77	0	5	0·95	—	*	*	*	*
	Shaftesbury 𝔐	56	40	53·7	43·5	48·6	+ 5·0	46	0	6	1·65	+ 0·85	*	*	*	*
6. SCOTLAND, W	Laudale (Loch Sunart)	53	29	47·7	37·4	42·6	− 1·8	24	13	7	2·13	+ 0·27	*	*	*	*
	Glasgow	53	34	46·9	38·0	42·5	− 0·6	20	11	6	1·20	+ 0·33	10·3	+ 2·4	18	+ 4
	Cally 𝔖	55	30	49·7	36·1	42·9	− 0·5	31	17	6	1·77	+ 0·57	*	*	*	*
	Aspatria	54	33	48·8	38·1	43·5	+ 0·4	27	11	4	1·57	—	14·4	—	24	—
	Douglas (Isle of Man)	58	36	52·0	41·6	46·8	+ 1·4	35	1	6	2·28	+ 1·23	14·8	− 0·8	24	− 1
7. ENGLAND, N.W.	Newton Rigg	55	31	48·4	36·1	42·3	+ 1·0	27	17	6	1·74	—	13·0	—	22	—
	Stonyhurst	55	38	49·9	40·6	45·3	+ 1·6	29	4	6	4·09	+ 3·04	11·0	− 0·6	18	− 1
	Blackpool 𝔐	55	38	51·5	41·2	46·4	+ 1·8	34	2	6	2·25	+ 1·42	13·1	+ 1·3	22	+ 2
	Manchester (Prestwich)	55	37	50·9	40·1	45·5	+ 1·8	32	5	6	2·22	+ 1·42	9·9	—	16	—
	Liverpool Obsy. (Bidston)	57	40	53·1	43·7	48·4	+ 3·1	45	0	6	0·84	+ 0·18	8·9	—	15	—
	Chester (Hawarden Bridge)	60	40	55·2	43·4	49·3	+ 3·8	51	0	5	0·75	—	*	*	*	*
	Llandudno 𝔐	57	41	54·0	44·7	49·4	+ 2·6	52	0	5	0·96	+ 0·18	10·3	− 3·2	17	− 5
	Holyhead	58	43	54·1	45·4	49·8	+ 2·3	55	0	5	1·65	+ 0·74	*	*	*	*
	Bettws-y-Coed	60	36	54·0	42·6	48·3	+ 2·1	44	0	6	2·13	—	9·1	—	15	—
8. ENGLAND, S.W.	Llangammarch Wells	56	38	52·4	41·6	47·0	+ 4·2	37	1	7	2·70	—	1·2	—	2	—
	Pembroke	57	43	55·7	48·1	51·9	+ 3·6	69	0	6	1·77	+ 0·88	9·2	− 6·6	15	− 11
	Cardiff	57	36	55·5	42·3	48·9	+ 2·4	48	0	5	3·03	—	*	*	*	*
	Clifton	55	42	53·4	44·7	49·1	+ 4·1	50	0	5	1·59	+ 0·81	*	*	*	*
	Bath	58	38	55·6	43·6	49·6	+ 4·0	53	0	5	1·54	+ 0·85	10·3	—	16	—
	Arlington (N. Devon)	55	38	53·1	43·3	48·2	+ 3·2	43	0	6	3·61	+ 2·26	*	*	*	*
	Cullompton 𝔐	57	34	56·1	44·0	50·1	+ 5·3	57	0	5	1·17	+ 0·33	10·5	− 3·5	17	− 6
	Falmouth	57	47	56·2	49·0	52·6	+ 4·0	74	0	6	0·69	− 0·53	17·3	− 1·0	27	− 2
	Plymouth	60	40	57·3	47·5	52·4	+ 4·8	73	0	5	1·11	+ 0·28	16·0	− 0·5	25	− 1
9. IRELAND, N.	Malin Head	54	33	50·7	39·3	45·0	− 0·6	32	8	6	2·05	+ 1·32	*	*	*	*
	Edenfel (Omagh)	55	38	50·7	40·0	45·4	+ 2·8	32	6	7	1·61	+ 0·77	*	*	*	*
	Blacksod Point	56	43	53·3	44·6	49·0	+ 2·4	49	0	7	1·97	+ 0·76	*	*	*	*
	Markree Castle	56	39	52·1	41·9	47·0	+ 2·9	35	0	7	1·53	+ 0·61	7·3	− 7·0	12	− 11
	Armagh	57	37	51·3	41·2	46·3	+ 2·7	33	2	6	1·23	+ 0·58	9·9	− 4·8	16	− 8
	Donaghadee	57	39	52·0	41·3	46·7	+ 1·4	36	2	7	1·71	+ 0·98	*	*	*	*
10. IRELAND, S	Dublin	59	39	53·6	44·0	48·8	+ 2·5	48	0	5	0·70	+ 0·12	11·6	− 6·5	19	− 11
	Birr Castle	57	39	53·6	41·7	47·7	+ 3·3	41	1	6	1·05	+ 0·37	5·6	− 10·8	9	− 18
	Kilkenny	58	36	55·3	42·9	49·1	+ 3·8	50	0	5	1·07	+ 0·39	*	*	*	*
	Waterford	59	35	54·6	44·4	49·5	+ 3·7	53	0	5	1·32	+ 0·40	*	*	*	*
	Roche's Point	59	42	55·7	46·0	50·9	+ 3·1	62	0	7	1·22	+ 0·17	*	*	*	*
	Valencia	57	44	54·9	46·7	50·8	+ 2·4	62	0	7	1·86	+ 0·57	5·8	− 11·4	9	− 18
	Killarney	61	40	55·6	45·5	50·6	+ 4·2	60	0	7	2·20	+ 0·77	*	*	*	*
	Foynes	57	42	54·6	44·7	49·7	+ 3·9	54	0	7	1·52	+ 0·57	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	59	47	57·3	49·9	53·6	+ 3·0	81	0	5	0·40	− 0·43	11·6	− 7·8	18	− 12
	Jersey	60	37	57·9	46·0	52·0	+ 2·4	70	0	6	0·45	− 0·49	10·9	− 8·8	17	− 14

Information for Stations marked 𝔐 is supplied by the Royal Meteorological Society, and that for Stations marked 𝔖 is supplied by the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

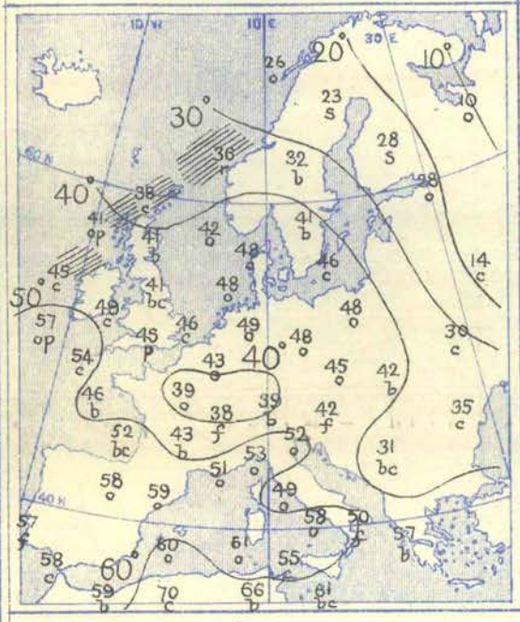
† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 33 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

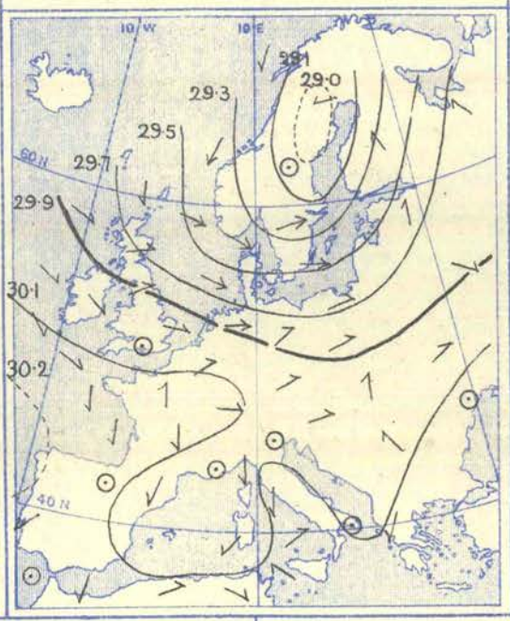
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 6th November, 1904.

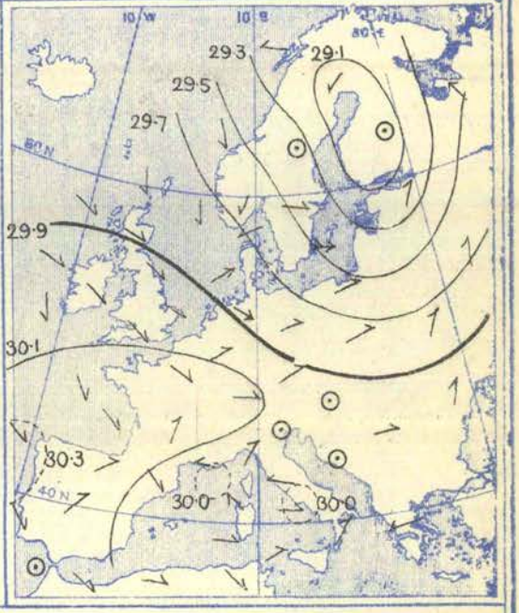
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m, very unsettled over the northern countries, but sky fairly clear in places. Fine and bright in Algeria and Greece, but cloudy or overcast in most southern regions, and foggy on the coast of Portugal. A considerable amount of rain falling later over the United Kingdom and slight amounts at various stations in Germany and southern Europe. Largest falls, 1·1 ins. at Blacksod Point, 0·8 in. at Valencia, and 0·7 in. at Roche's Point.

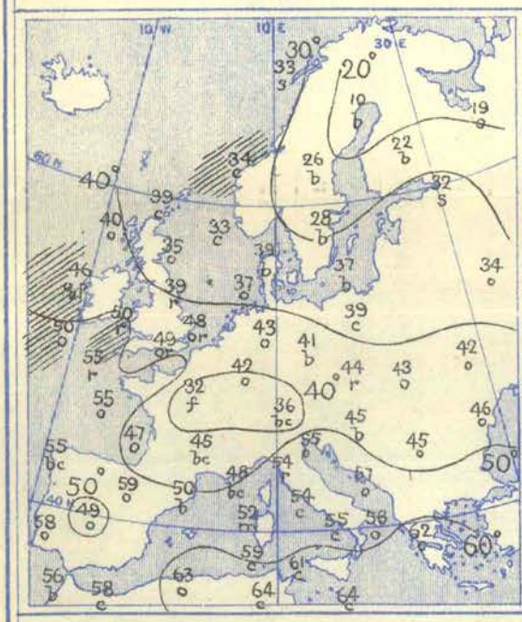
Temperature risen over France, Italy, North Germany, Scandinavia, and Finland, fallen elsewhere. Morning readings highest, 66° at Algiers, 63° at Palma, 61° at Cagliari and Malta, and 58° at Naples and Biarritz. Lowest, (1) 10° at Archangel, 14° at Moscow, and about 25° in the north of Scandinavia, (2) 31° at Hermanstadt, (3) 38° at Belfort and 39° at Paris, (4) 38° at Sumburgh Head and 41° at Donaghadee and Shields. Rising later to 80° at La Calle, 70° at Perpignan, in Greece, and in a few other extreme southern localities. Maxima only 48° at Paris.

Wind at 8 a.m. circulating cyclonically over all the northern regions, the Southerly current blowing a gale over the Gulf of Finland. Light or moderate from North-West or West over the United Kingdom, and light and very variable over southern Europe. Little change occurring during day.

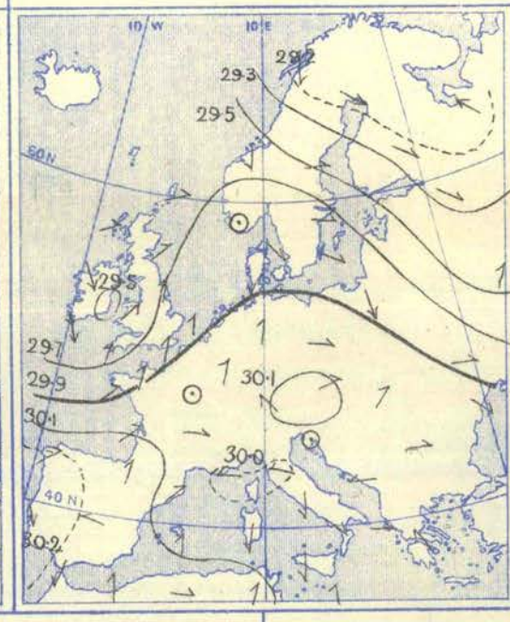
Barometer at a.m. ranging from 30·2 ins. to 30·1 ins. in an anticyclone extending from the Bay of Biscay to Bavaria, to less than 29·0 ins. in a depression over the northern part of the Gulf of Bothnia. Latter system moving eastwards later, a fall of the mercury setting in over Ireland, and some shallow minima appearing in the Mediterranean region.

Monday, 7th November, 1904.

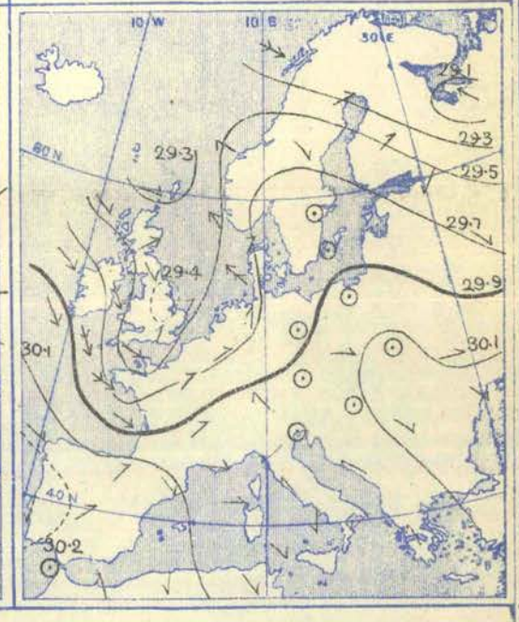
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright over Sweden and Finland, but very cloudy or overcast generally, with much rain over the United Kingdom. Rain also falling at Aix-la-Chapelle, Florence, and Cracow, and snow at St. Petersburg and Bodö. Rain experienced later over the greater portion of our area—heaviest amounts, 1·3 ins. at Belfort, 1·0 in. at Stornoway, and 0·6 in. at North Shields and Holyhead.

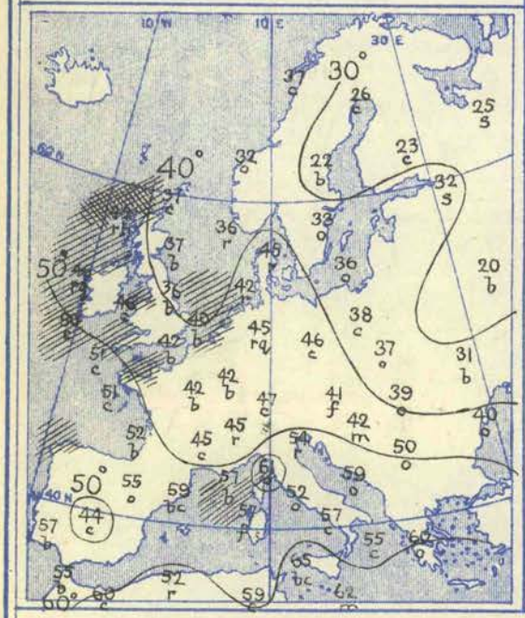
Temperature risen quickly in Russia, fallen in most other places. Morning readings highest, 60° to 64° at a few of the most southern stations. Lowest, (1) 10° at Haparanda, 19° at Archangel, 25° at Karlstad, (2) 32° at Paris, 36° at Belfort and Munich, (3) 33° to 39° over Scotland. Rising later to above 50° at most of our own stations, to above 60° in Italy and the south of France, to 70° in Greece and some degrees higher in Algeria and Tunis, and also at Palermo. Maxima below 50° over Germany and below 32° in the north of Sweden.

Wind in morning showing a complete cyclonic circulation around Ireland, the Northerly current blowing a gale on the west coast. Mainly anticyclonic and light in force over the central and southern countries and between North and North-West or West over northern Europe. Increasing to a gale from North or North-West on all our western coasts and in Brittany later, and from the Southward on our south-east coasts and in Jutland. A strong gale from North-West setting in at Bodö.

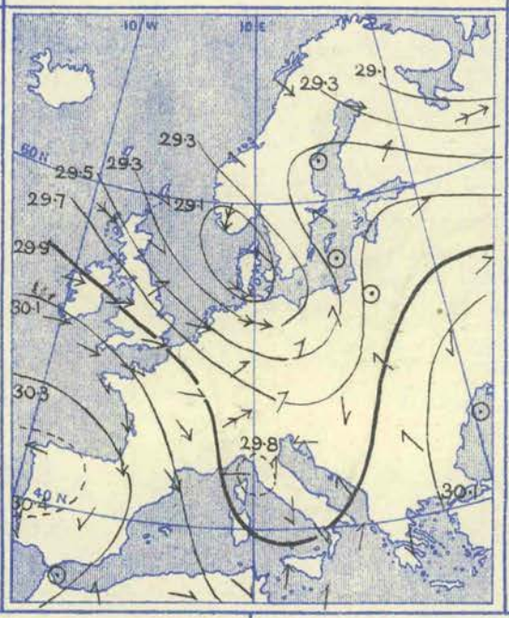
Barometer at 8 a.m. ranging from above 30·2 ins. over Portugal to less than 29·5 ins. in a depression over Ireland, and to less than 29·2 ins. over the extreme north of Europe. Irish depression over Ireland, and to less than 29·2 ins. over the extreme north of Europe. Irish disturbance travelling at a good rate eastwards during day and becoming much modified in form. Another depression approaching the Shetlands and causing a decided fall of the barometer in that region.

Tuesday, 8th November, 1904.

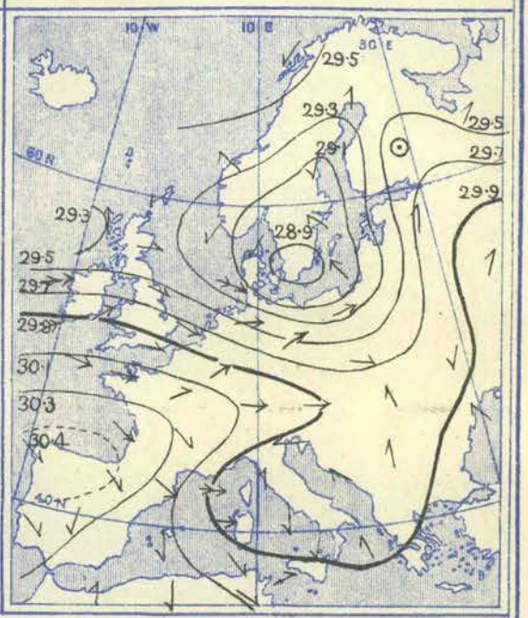
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at a.m. showery at some of our extreme north-western stations and rainy at Belfort, Perpignan, and Bilbao, but fair or fine over the most western countries generally. Dull and unsettled, with rain in places, over the eastern half of our area, and snow at St. Petersburg and Archangel. Rain falling later over our Islands and the northern countries of the Continent. Largest amounts, 1·4 ins. at Faerder and Malin Head and 1·0 in. at Hamburg.

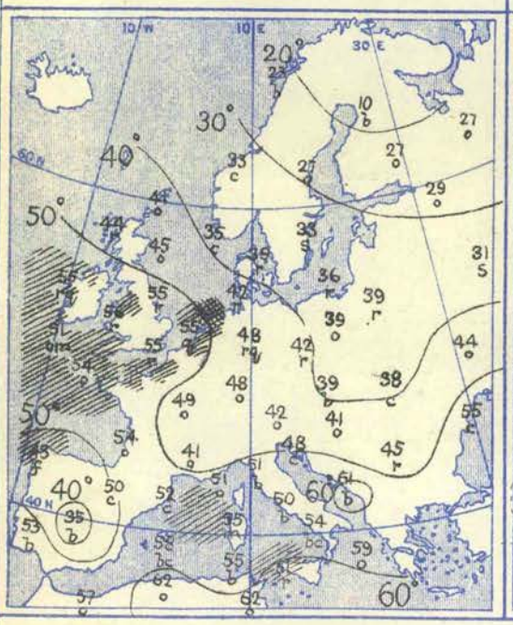
Temperature changed irregularly; fallen in most regions, risen over France and Denmark. Morning readings highest, 65° at Palermo, 62° at Algiers and Malta, and 59° at Barcelona and Lesina. Lowest, (1) 20° at Moscow, 22° at Hernösand, and below 32° over the north of Europe generally, (2) below 40° at most of our own northern stations, (3) 42° at Paris, (4) 44° at Madrid. Rising to many degrees above 50° later in most parts of our Islands, to above 60° over Italy and the south of France, and to about 70° in Algeria and Tunis.

Wind at 8 a.m. showing an extensive cyclonic circulation over the north-western countries, the force of the various currents being strong to a fresh or strong gale generally. Another circulation of light or moderate winds prevailing around the Gulf of Genoa, and a Westerly gale in the far north of Europe. Gale continuing all day in most regions, but that in the far north dying down. Wind backing again on our north-west and west coasts.

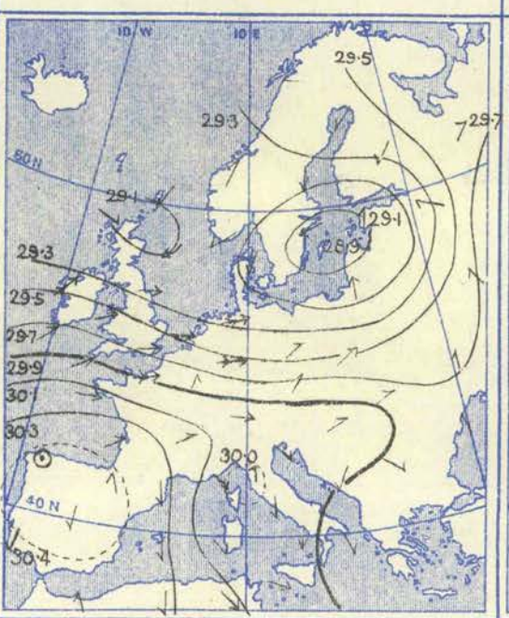
Barometer at 8 a.m. ranging from above 30·4 ins. over the northern parts of the Iberian Peninsula and above 30·2 ins. over the Crimea and the Black Sea, to less than 29·1 ins. (1) over Lapland and the White Sea, and (2) in a depression centred near the north of Denmark. Below 29·8 ins. in a disturbance over the Gulf of Genoa. Danish depression travelling eastwards during day, but another deep and important system advancing on our north-west coasts.

Wednesday, 9th November, 1904.

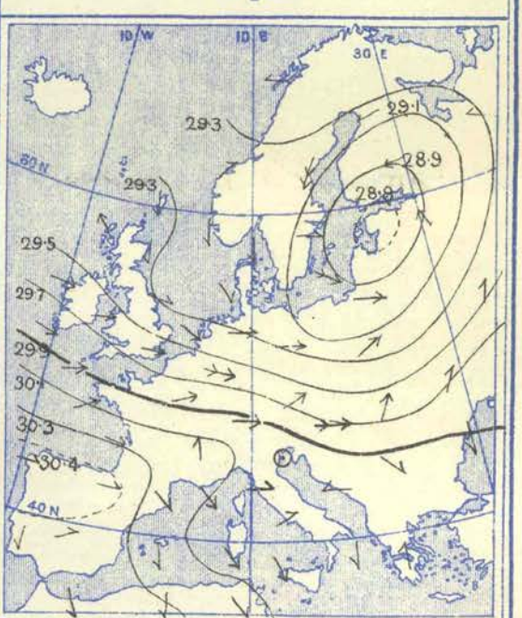
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright at a few Italian stations, Lisbon, Madrid, and in the extreme north of Scandinavia; overcast in almost all other places and very unsettled. Rain falling in many parts of our Islands and over northern Europe and also Palermo and Hermanstadt. Snow prevailing at Moscow, Helsingfors, and in the south of Sweden. Rain falling in most regions later—largest amounts, 0·79 in. at Brussels, 1·02 in. at Palermo, and 1·22 in. at Aix-la-Chappelle.

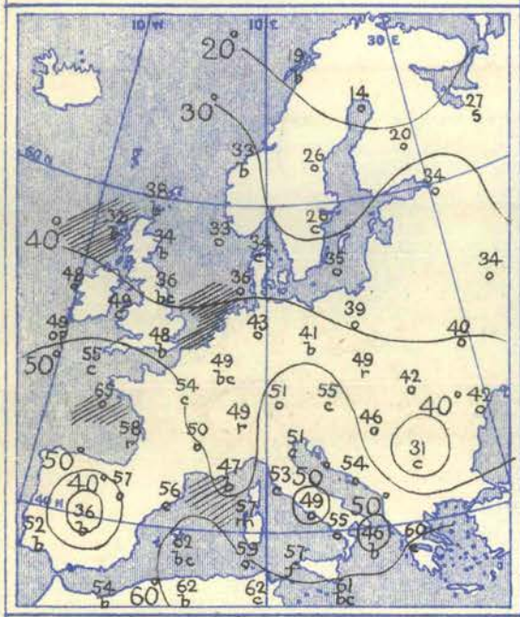
Temperature risen quickly over our Islands, the north of France, and the Low Countries, fallen in most other regions. Morning readings highest, about 60° at some Algerian stations and at Palermo and Lesina, and 56° or 57° in many parts of England and Ireland. Lowest, (1) 10° at Uleaborg, 23° at Bodö, and 27° at Hernösand and Archangel, (2) 41° at Sumburgh Head, (3) 41° at Limoges and Lyons, 44° at Florence, (4) 35° at Madrid. Maxima during day 60° in several parts of England and about 70° or a little above at some Spanish, Algerian, and Grecian stations.

Wind at 8 a.m. blowing a gale from the Westward over Ireland, England, the north of France, the Netherlands and in some German localities, and circulating cyclonically with almost equal force around the Baltic. Varying both in force and direction over the southern regions—a moderate North-West gale at Cape Sicié. Gale continuing throughout day on some parts of our own coasts and in many Continental stations. Wind becoming Northerly in Scotland.

Barometer at 8 a.m. ranging from 30·4 ins. and upwards over the Spanish Peninsula to above 30·0 ins. in a shallow depression over the Gulf of Genoa, to less than 29·1 ins. in another system over the north of Scotland, and to less than 28·9 ins. in a third centred over the Baltic. Gradients steep in most parts of our area. Not much change in the general distribution later; depressions moving eastwards.

Thursday, 10th November, 1904.

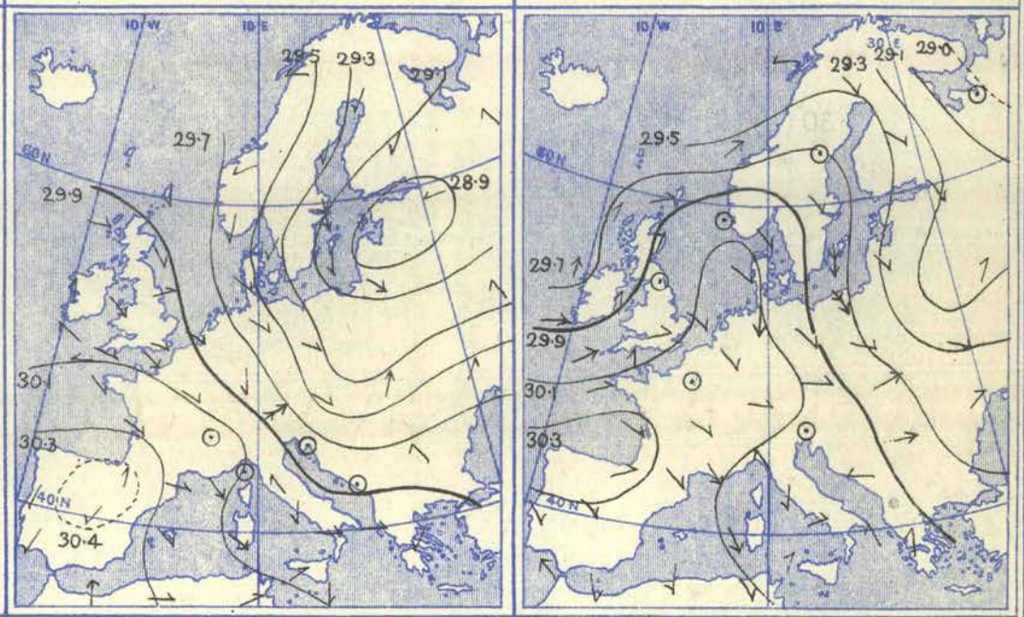
Temperature and Weather. 8 a.m.



Weather at 8 a.m. temporarily fine in several parts of the United Kingdom and in various Continental regions. Cloudy or overcast generally, with rain at some French stations and in central Europe, and snow at Archangel and Copenhagen. Rain falling later in almost all parts of our Islands and France and in several northern countries of the Continent—largest amounts, 0·81 in. at Valencia and 0·95 in. at Belfort.

Temperature fallen quickly over our Islands and their immediate vicinity, risen in most other districts. Morning readings highest, about 60° at a few stations in the extreme south. Lowest, (1) 14° at Uleaborg, 19° at Bodö, 23° at Karlstad, (2) 29° at Wick, 32° at Stornoway and Nairn, (3) 36° at Madrid, (4) 31° at Hermanstadt. Rising later to above 70° in Algeria and at San Fernando, but remaining below 60° in some parts of Italy, over central Europe, our Islands, and most parts of France. Severe frost continuing in the far north and a sharp frost occurring at night at some Scotch stations.

Barometer and Wind. 8 a.m. 6 p.m.

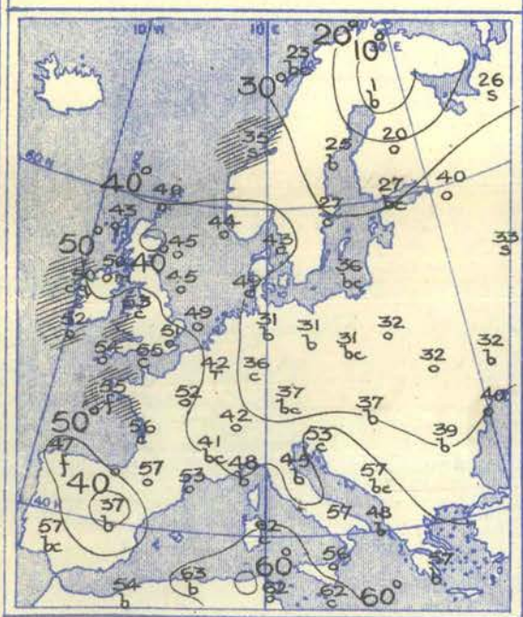


Wind at 8 a.m. circulating cyclonically with the force of a light breeze to a gale over Russia and the neighbouring countries. Moderate Westerly and North-Westerly winds most prevalent over our Islands, but Southerly to Easterly in the west and north of Ireland. Light anticyclonic airs shown in the south-west of our area, and strong North-Westerly winds on some parts of the Mediterranean. Wind increasing from the Southward later on our west and north-west coasts.

Barometer risen over all the north-western countries—rapidly in Scotland. Morning readings ranging from above 30·4 ins. in an anticyclone over Spain to 29·9 ins. at Nice, and to less than 28·9 ins. in a depression over the Gulf of Finland and its vicinity. Gradients steep over the south of Sweden and the Baltic and also over the Gulf of Lions and the south-east of France. A fresh depression arriving off our north-west coasts by evening and moving north-eastwards. Finnish disturbance travelling south-eastwards.

Friday, 11th November, 1904.

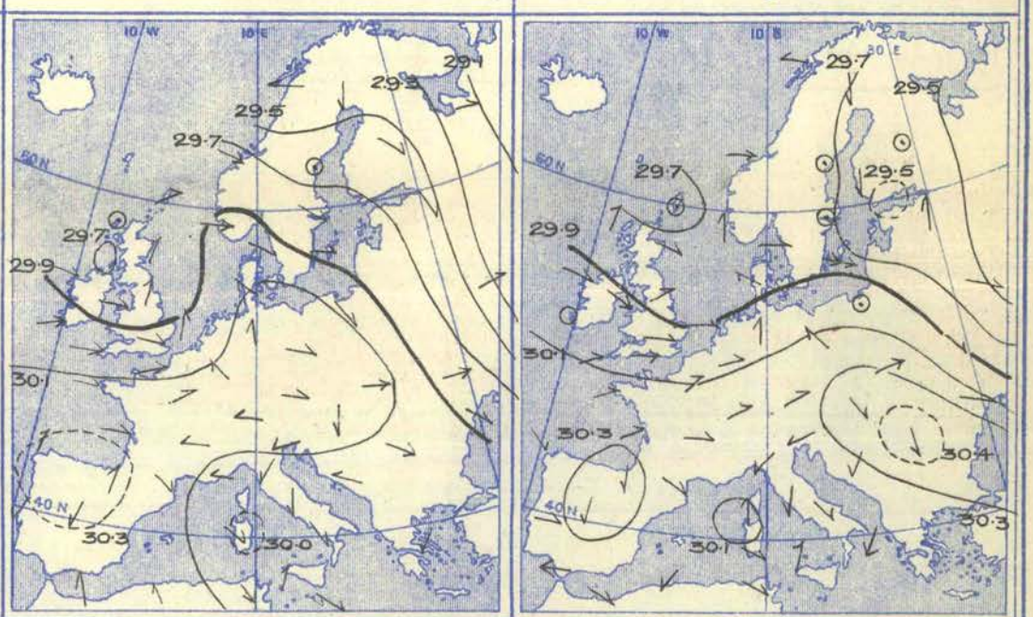
Temperature and Weather. 8 a.m.



Weather at 8 a.m. cloudy or dull in most places, but generally fine and bright in the south of our area and also at some central and northern stations. Fog reported at Corunna and over Brittany, rain at Limoges, Brussels, and Leith, and snow at Cracow, Moscow, and Archangel. Slight rain later in many parts of our Islands and in some northern Continental countries and as much as 1·3 ins. at Belfort.

Temperature fallen quickly over central Europe, risen in most other regions. Morning readings highest, about 60° at a few stations in the extreme south and at Bilbao. Lowest, (1) 1° at Haparanda, 20° at Kuopio, 21° at Helsingfors, (2) 31° at Nairn, (3) 31° or 32° over North Germany, (4) 37° at Madrid. Rising later to 50° in London, to above 60° in the far south of Europe, and to above 70° on the north coast of Africa and at San Fernando.

Barometer and Wind. 8 a.m. 6 p.m.

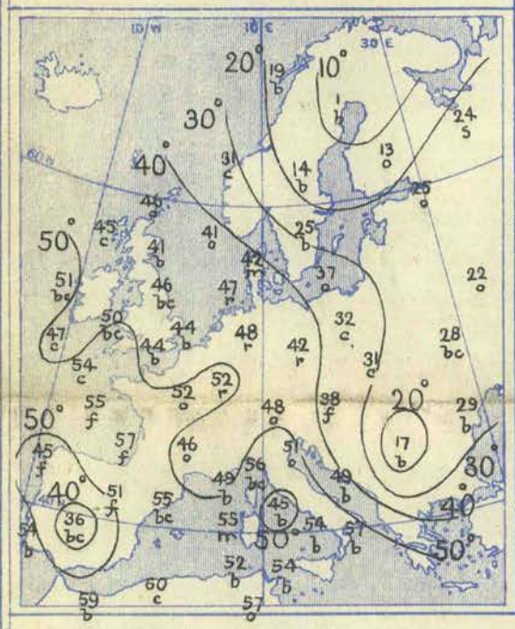


Wind in morning showing cyclonic circulations of little strength over the northern parts of our Islands and on the Mediterranean. Moderate to strong from the Westward over the greater part of the Continent. Not much change later except the setting in of a Westerly gale over the Baltic.

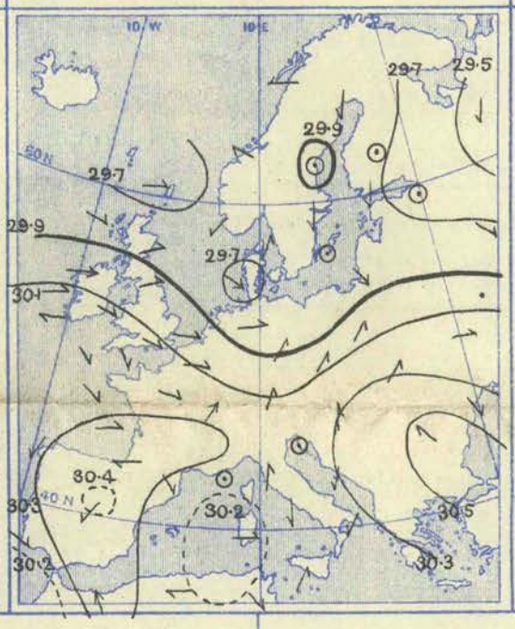
Barometer at 8 a.m. highest, 30·3 ins. to 30·2 ins. in an area extending from the Spanish Peninsula to central Europe. Lowest, less than 29·2 ins. over the eastern half of Russia. Relatively low in a depression over Sardinia and in another off the south-west of Scotland. Latter disturbance moving quickly north-eastwards during day. A very brisk increase of pressure taking place over Transylvania, and an anticyclone being formed in that region.

Saturday, 12th November, 1904.

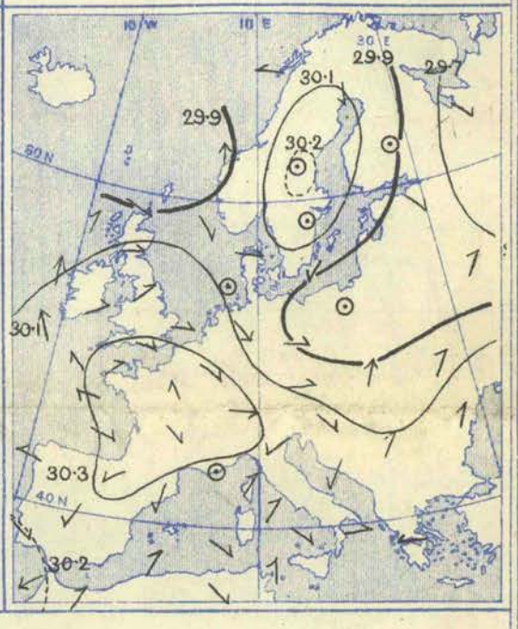
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in most regions, but overcast and rainy over Germany and Denmark, and snow falling at Archangel. Fog prevailing at Corunna and on the coast of Brittany. Some rain falling later in various parts of our Islands and the Continent, but amounts small.

Temperature risen quickly over the Netherlands, Denmark, and Germany, fallen in most other regions. Morning readings highest, 61° at Barcelona, 60° at Algiers, and 59° at San Fernando. Lowest, 1° at Haparanda, 13° at Knopio, much below 32° over the whole of Russia and Transylvania, and 36° at Madrid. Rising later to nearly 60° on our south-west coasts, to above 70° at Perpignan, San Fernando, and Sfax. Frost continuing all day in the far north of Europe.

Wind in morning anticyclonic in the more southern regions and cyclonic in the north; light or moderate in force generally, but fresh or strong from north-west over the Netherlands and Denmark. Becoming anticyclonic over Sweden and Finland later.

Barometer at 8 a.m. ranging from above 30·5 ins. in an anticyclone centred near Hermanstadt, and above 30·3 ins. in another system over the south-west of our area, to below 29·7 ins. in depressions lying over Denmark and off the north-east of Scotland, and to less than 29·5 ins. over the north of Russia. Pressure increasing quickly later over Sweden and its vicinity, and a separate anticyclone forming. Barometer falling briskly over the south-east of Europe.

IV.—GENERAL NOTES, etc.

The general character of the week over the northern half of Europe was rough and unsettled and in the south mainly quiet and fair. Nearly all the cyclonic disturbances arrived from the Atlantic and travelled eastwards or north-eastwards across some portion of the United Kingdom and the northern countries of the Continent. Some of these systems were deep, and as the barometer was relatively high to the southward and south-westward, gales from West and North-West were felt very generally over our Islands and the neighbouring parts of the Continent. The wind was strongest during Wednesday, when it blew a fresh to strong Westerly gale over the whole area comprising Ireland, England, the north of France, the Netherlands, and Germany. Temperature fluctuated greatly, but the chief feature of the week was a fall of a more permanent character over Scandinavia. Much rain was experienced over the north-western countries and occasional slight falls in the south, while over northern Europe snow was of common occurrence. Towards the end of the week the changes in the distribution became very sudden and violent, but the general tendency was for a rise of the barometer.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 266.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	18·6	+ 8·4	33	+ 15
STRATHPEFFER SPA	20·7	+ 9·2	36	+ 16
CRATHES	26·3	—	45	—
BALRUDDERY	18·4	—	32	—
EDINBURGH	14·4	+ 2·5	24	+ 4
COCKLE PARK	20·1	—	34	—
NEWCASTLE-on-TYNE	9·8	—	16	—
YORK	13·2	+ 2·5	22	+ 4
SKEGNESS	15·2	—	25	—
CROMER	19·1	—	31	—
LOWESTOFT	19·6	—	32	—
DUNMOW	17·8	—	29	—
SHEFFIELD	6·2	—	10	—
WORKSOP	11·5	- 0·8	19	- 1
THURCASTON	14·2	+ 0·7	23	+ 1
MARGATE	—	—	—	—
BROADSTAIRS	21·2	—	34	—
RAMSGATE	20·8	—	33	—
EASTBOURNE	22·7	+ 6·0	36	+ 10
BRIGHTON	19·3	+ 1·7	31	+ 3
WORTHING	18·5	—	29	—
BOGNOR	20·8†	—	33†	—
WESTBOURNE	14·7†	- 1·5	23†	- 2
VENTNOR HOSPITAL	18·2	+ 1·1	28	+ 2
BOURNEMOUTH	16·4	—	26	—
MARLBOROUGH	12·2	- 1·3	19	- 2
SOUTHPORT	12·3	—	20	—
RHYL	10·0	—	16	—
ABERDOVEY	8·0†	—	13†	—
TENBY	9·9	- 6·1	16	- 10
TORQUAY	17·6	+ 1·3	28	+ 2
NEWQUAY	17·4	- 1·6	27	- 3
GUERNSEY	14·3†	- 2·7	22†	- 4

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 31, page 186	Skegness	—	—	—	—	—	—	—	—	—	—	—	67·4	—	63	—
" " "	Ventnor	—	—	—	—	—	—	—	—	—	—	—	69·5	+ 22·2	66	+ 21
No. 32, page 188	Aberdeen	—	—	—	—	—	—	—	—	2	1·09	+ 0·42	—	—	—	—
" " "	Spurn Head	—	—	—	—	—	—	—	—	2	0·48	+ 0·06	—	—	—	—
" " "	Portland Bill	—	—	—	55·9	60·7	- 0·1	131	—	—	—	—	—	—	—	—
" " "	Glasgow	—	—	—	50·1	55·3	- 1·2	—	—	—	—	—	45·9	+ 16·5	45	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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TWENTY-SEVENTH YEAR. *Vol. XXI. (New Series.)* No. 46. FORTY-SIXTH WEEK, ENDING SATURDAY, NOVEMBER 19TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS (See p. 272.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	57	30	51·1	42·4	46·8	6 above	34	+17	0	−17	2041	+ 73	524	−117
	1. SCOTLAND, EAST	59	31	52·1	40·1	46·1	5 above	37	+19	5	−17	2233	− 84	644	− 58
	2. ENGLAND, N.E.	57	28	51·6	37·2	44·5	2 above	38	+16	13	− 2	2751	+212	464	− 88
	3. ENGLAND, EAST	55	27	50·2	35·5	42·9	0 (average)	34	+ 8	18	+ 2	3053	+112	422	−186
	4. MIDLAND COUNTIES	55	27	49·1	34·0	41·6	1 below	20	− 5	33	+15	2796	− 83	531	−105
	5. ENGLAND, SOUTH	58	24	51·0	36·9	44·0	0 (average)	35	+ 1	14	+ 4	3129	−111	359	− 82
Principal Grazing Districts.	6. SCOTLAND, WEST	56	35	52·6	42·8	47·7	5 above	40	+16	0	−13	2476	+ 3	389	− 90
	7. ENGLAND, N.W.	57	31	51·1	40·1	45·7	2 above	34	+ 7	5	− 5	2703	− 20	393	− 49
	8. ENGLAND, S.W.	60	23	52·5	38·7	45·6	1 above	39	+ 2	9	+ 2	3090	+ 51	261	− 75
	9. IRELAND, NORTH	58	37	52·5	45·3	48·5	5 above	46	+20	0	−11	2515	−103	340	− 69
	10. IRELAND SOUTH	59	34	54·0	43·8	48·9	4 above	48	+13	0	− 9	2993	+ 4	232	− 67
	— CHANNEL ISLANDS	59	49	55·1	46·8	50·9	2 above	62	+ 8	0	− 2	3652	+ 82	80	− 46

Rainfall.

	DISTRICTS. (See p. 272.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	8	3 less	219	+20	44·9	+ 3·0
	1. SCOTLAND, EAST	1	1	6 less	175	+ 4	22·9	− 4·4
	2. ENGLAND, N.E.	1	less than half	6 less	143	−15	18·0	− 4·1
	3. ENGLAND, EAST	1	less than half	5 less	141	−18	17·6	− 3·8
	4. MIDLAND COUNTIES	1	less than half	5 less	151	0	21·2	− 3·0
	5. ENGLAND, SOUTH	1	less than half	6 less	155	+ 7	23·2	− 1·4
Principal Grazing Districts.	6. SCOTLAND, WEST	3	7	6 less	181	+ 5	43·0	0·0
	7. ENGLAND, N.W.	2	2	6 less	169	+ 2	27·4	− 3·0
	8. ENGLAND, S.W.	2	1	9 less	170	+ 1	32·9	+ 0·1
	9. IRELAND, NORTH	3	3	6 less	219	+19	34·0	+ 2·4
	10. IRELAND, SOUTH	2	1	9 less	191	+10	35·4	+ 0·6
	— CHANNEL ISLANDS	2	1	8 less	197	+24	29·7	+ 1·7

Bright Sunshine.

	DISTRICTS. (See p. 272.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	− 1	13	− 2	1144	+ 55	28	+ 1
	1. SCOTLAND, EAST	19	+ 2	35	+11	1224	− 35	30	− 1
	2. ENGLAND, N.E.	19	+ 6	32	+10	1380	− 12	34	0
	3. ENGLAND, EAST	20	+ 6	34	+10	1588	+ 36	39	+ 1
	4. MIDLAND COUNTIES	16	+ 5	28	+ 8	1333	+ 34	33	+ 1
	5. ENGLAND, SOUTH	18	+ 4	29	+ 6	1556*	+ 28	38	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	6	− 5	11	− 9	1265	− 53	31	− 1
	7. ENGLAND, N.W.	18	+ 8	31	+14	1388*	+124	34	+ 3
	8. ENGLAND, S.W.	18	+ 4	30	+ 6	1476*	− 95	36	− 2
	9. IRELAND, NORTH	3	−10	5	−18	1178	− 37	29	− 1
	10. IRELAND, SOUTH	5	−10	9	−17	1356	− 29	33	− 1
	— CHANNEL ISLANDS	21	+ 5	34	+ 8	1739	− 70	43	− 2

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather. The week was very dry over the Kingdom as a whole, and sometimes bright, but much mist or fog prevailed over England during the nights and mornings and on more than one occasion continued throughout the day in London and its vicinity. Rain fell frequently in the extreme north and north-west of Scotland, and towards the end of the week extended over nearly the whole Kingdom.

Temperature was just equal to the mean in England S. and E., but above it in all other districts, the excess being considerable in Scotland and the north of Ireland. The highest of the maxima, recorded generally during the earlier half of the week, ranged from 60° in England S.W. to 55° in England E. and the Midland Counties. The lowest of the minima occurred in most places about the middle of the period, and ranged from 23° in England S.W. and 24° in England S. to 37° in Ireland N. and to 40° in the Channel Islands.

Rainfall was less than the mean in all districts. In the wheat-producing districts the fall was scarcely appreciable. At several stations measurable amounts of water were deposited in the gauge by the heavy dews or wet fogs.

Bright Sunshine exceeded the mean in most parts of England, but was deficient in Ireland and the north and west of Scotland. The percentage of the possible duration ranged from 35 in Scotland E. and 34 in England E. and the Channel Islands to 11 in Scotland W., 9 in Ireland S., and to 5 in Ireland N.

Barometer and Wind. Our southern districts were generally under the influence of a high pressure system extending thence either from the Continent or the Atlantic, while our western and northern coasts were affected by depressions travelling north-eastwards or eastwards to Scandinavia. The wind was very light and often variable in the south and south-east, but the general current over the United Kingdom was Southerly and South-Westerly and finally Westerly to North-Westerly. Strong breezes were experienced at times in the extreme west and north-west, and a slight gale in the north of Scotland on Friday night or Saturday morning. By the end of the week the southern anticyclone was receding, and the Westerly wind had extended to our more southern and south-eastern coasts.

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Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	52	36	49·0	43·7	46·4	+ 4·3	31	0	7	0·65	− 0·31	*	*	*	*
	Stornoway	56	30	50·6	42·7	46·7	+ 4·9	33	0	6	1·44	+ 0·21	2·4	− 6·9	5	− 13
	Wick	57	35	51·6	42·7	47·2	+ 5·7	36	0	3	0·10	− 0·56	*	*	*	*
	Lairg Ⓢ	55	33	51·4	39·4	45·4	+ 6·7	35	7	3	0·33	− 0·50	*	*	*	*
	Glencarron Ⓢ	55	34	51·4	43·6	47·5	+ 7·0	39	0	7	1·94	− 0·30	*	*	*	*
	Fort Augustus Ⓢ	55	33	52·4	42·2	47·3	+ 5·8	37	0	4	0·60	− 0·44	2·9	− 1·3	5	− 2
1. SCOTLAND, E.	Nairn	59	37	53·0	41·7	47·4	+ 6·8	39	1	4	0·23	− 0·27	*	*	*	*
	Aberdeen	59	35	53·0	40·4	46·7	+ 4·9	40	4	0	0·00	− 0·70	23·0	+ 11·0	43	+ 20
	Braemar Ⓢ	52	31	49·7	38·5	44·1	+ 6·0	29	10	1	0·02	− 0·83	*	*	*	*
	Ochtertyre Ⓢ	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Leith	58	34	53·0	41·1	47·1	+ 4·4	39	3	1	0·01	− 0·46	*	*	*	*
	Marchmont Ⓢ	55	35	52·0	38·6	45·3	+ 4·9	37	10	0	0·00	− 0·76	17·2	+ 5·4	31	+ 10
2. ENGLAND, N.E.	Alnwick Castle	57	31	54·5	39·4	47·0	+ 4·6	46	7	0	0·00	− 0·74	*	*	*	*
	Durham	57	30	52·3	36·9	44·6	+ 3·2	40	14	1	0·02	− 0·58	20·8	+ 9·1	37	+ 16
	Shields	57	33	52·1	37·0	44·6	+ 1·4	39	14	2	0·03	− 0·50	*	*	*	*
	Scarborough Ⓜ	55	33	52·4	37·5	45·0	+ 1·6	40	13	0	0·00	− 0·64	17·7	—	31	—
	Spurn Head	53	39	51·7	41·4	46·6	+ 2·7	35	2	0	0·00	− 0·50	*	*	*	*
	Lincoln	52	28	48·6	33·7	41·2	− 2·6	18	34	0	0·01 ↓	− 0·45	*	*	*	*
	Fulbeck (Lincolnshire)	54	30	49·9	34·5	42·2	+ 0·6	33	21	2	0·04	− 0·41	17·0	—	29	—
3. ENGLAND, E.	Hillington Ⓜ	51	28	49·9	33·4	41·7	− 0·6	22	36	0	0·09 ↓	− 0·51	24·5	+ 12·1	42	+ 21
	Yarmouth	51	39	49·4	40·3	44·9	+ 1·3	27	5	0	0·01 ↓	− 0·63	*	*	*	*
	Geldeston	55	29	52·3	34·1	43·2	− 0·3	42	22	0	0·02 ↓	− 0·55	20·6	+ 6·3	35	+ 11
	Cambridge	54	28	50·0	32·5	41·3	− 1·3	22	39	1	0·03	− 0·41	18·0	+ 4·2	30	+ 7
	Felixstowe	53	31	50·2	37·1	43·7	+ 0·2	32	14	2	0·02	—	21·5	—	36	—
	Clacton-on-Sea	53	35	49·6	38·6	44·1	+ 0·4	29	10	0	0·01 ↓	—	22·3†	—	37†	—
	Rothamsted	53	27	49·5	31·6	40·6	− 1·7	21	42	1	0·04	− 0·58	13·4	+ 0·9	22	+ 2
	Shoeburyness	55	31	50·3	36·4	43·4	− 0·6	33	16	0	0·01 ↓	− 0·47	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	53	30	49·4	38·4	43·9	+ 2·3	28	10	1	0·03	− 0·63	17·3	—	30	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	51	27	46·7	31·7	39·2	− 3·4	13	39	0	0·02 ↓	− 0·44	4·5	—	8	—
	Colly Weston (Stamford)	52	31	50·0	34·4	42·2	− 0·2	33	21	1	0·08	− 0·48	*	*	*	*
	Cheadle Ⓜ	50	33	47·2	37·0	42·1	+ 0·6	22	14	2	0·04	− 0·63	*	*	*	*
	Birmingham (Edgbaston)	53	33	49·7	36·9	43·3	+ 0·7	31	14	1	0·05	− 0·50	20·1	—	34	—
	Shrewsbury	55	27	51·3	32·8	42·1	− 1·0	39	26	0	0·00	—	*	*	*	*
	Hereford Ⓜ	52	27	48·2	29·7	39·0	− 4·4	17	48	2	0·03	− 0·54	*	*	*	*
	Cirencester	54	27	49·6	32·4	41·0	− 1·0	21	39	3	0·04	− 0·63	14·3	+ 1·6	24	+ 3
	Oxford	55	27	50·0	32·6	41·3	+ 2·0	22	39	1	0·04	− 0·50	18·5	+ 5·5	31	+ 9
5. ENGLAND, S.	London	53	31	50·0	34·7	42·4	− 1·6	33	20	0	0·00	− 0·52	6·7‡	− 1·0‡	11‡	− 2‡
	Wisley (Surrey)	55	24	49·9	31·4	40·7	− 4·2	22	43	1	0·03	—	13·7	—	23	—
	Swarraton (Alresford) Ⓜ	57	28	50·4	32·6	41·5	− 1·1	24	39	3	0·10	− 0·62	*	*	*	*
	Tunbridge Wells Ⓜ	55	32	50·1	35·1	42·6	− 0·8	33	19	0	0·03 ↓	—	20·0	—	33	—
	Dungeness	55	29	51·9	36·6	44·3	− 1·1	39	15	1	0·02	− 0·57	25·9	—	43	—
	Hastings (St. Leonards)	55	35	51·5	41·3	46·4	+ 1·3	34	2	1	0·03	− 0·72	25·9	+ 10·2	43	+ 17
	Southampton	58	32	51·8	36·9	44·4	− 0·6	38	14	1	0·03	− 0·69	16·2	+ 2·6	27	+ 4
	Portland Bill	57	38	53·6	43·6	48·6	+ 2·0	46	0	1	0·03	—	*	*	*	*
	Shaftesbury Ⓜ	54	35	49·4	40·1	44·8	+ 2·4	28	5	3	0·07	− 0·73	*	*	*	*
6. SCOTLAND, W	Laudale (Loch Sunart)	56	37	53·6	44·9	49·3	+ 5·9	51	0	5	1·73	− 0·21	*	*	*	*
	Glasgow	54	39	51·7	44·7	48·2	+ 6·0	43	0	3	0·39	− 0·48	5·3	− 0·6	10	− 1
	Cally Ⓢ	55	36	52·5	39·3	45·9	+ 3·6	39	8	3	0·58	− 0·65	*	*	*	*
	Aspatria	55	35	52·1	42·2	47·2	+ 5·0	36	0	3	0·45	—	8·0	—	14	—
	Douglas (Isle of Man)	55	37	53·2	43·0	48·1	+ 3·6	43	0	2	0·14	− 0·92	4·8	− 9·0	8	− 16
7. ENGLAND, N.W.	Newton Rigg	55	33	50·8	37·0	43·9	+ 3·9	34	14	3	0·16	—	10·5	—	18	—
	Stonyhurst	51	37	48·7	39·7	44·2	+ 1·8	25	6	4	0·67	− 0·37	17·2	+ 7·3	30	+ 13
	Blackpool Ⓜ	52	35	50·4	39·4	44·9	+ 1·5	31	7	3	0·15	− 0·63	14·9	+ 4·9	26	+ 9
	Manchester (Prestwich)	52	31	48·7	36·9	42·8	+ 0·4	27	14	3	0·30	− 0·50	10·9	—	19	—
	Liverpool Obsy. (Bidston)	53	38	50·4	40·6	45·5	+ 1·5	30	4	1	0·07	− 0·57	19·6	—	33	—
	Chester (Hawarden Bridge)	54	35	51·0	38·1	44·6	+ 0·2	35	11	1	0·05	—	*	*	*	*
	Llandudno Ⓜ	57	42	54·7	44·4	49·6	+ 4·2	53	0	2	0·11	− 0·66	24·7	+ 12·9	42	+ 22
	Holyhead	54	44	52·6	46·6	49·6	+ 3·2	53	0	2	0·18	− 0·74	*	*	*	*
	Bettws-y-Coed	56	34	52·9	38·6	45·8	+ 0·3	41	10	2	0·07	—	15·2	—	26	—
8. ENGLAND, S.W.	Llangammarch Wells	53	23	49·6	28·6	39·1	− 2·6	21	52	3	0·08	—	18·4	—	31	—
	Pembroke	55	43	54·0	47·7	50·9	+ 3·6	62	0	3	0·09	− 0·80	18·1	+ 4·0	30	+ 7
	Cardiff	55	33	52·0	35·2	43·6	− 2·4	40	19	2	0·04	—	*	*	*	*
	Clifton	54	36	51·0	38·9	45·0	+ 1·3	34	9	1	0·02	− 0·74	*	*	*	*
	Bath	55	31	51·6	34·6	43·1	− 1·3	39	21	1	0·01	− 0·67	16·4	—	27	—
	Arlington (N. Devon)	54	32	52·3	39·7	46·0	+ 2·1	38	6	4	0·33	− 1·02	*	*	*	*
	Cullompton Ⓜ	57	30	52·9	34·1	43·5	− 0·1	44	22	2	0·08	− 0·77	15·6	+ 3·6	26	+ 6
	Falmouth	57	44	54·4	46·5	50·5	+ 2·9	60	0	2	0·03	− 1·20	17·3	+ 1·0	28	+ 2
	Plymouth	60	36	55·0	43·2	49·1	+ 2·6	50	0	1	0·04	− 0·80	22·0	+ 7·7	36	+ 13
9. IRELAND, N.	Malin Head	55	41	51·6	43·9	47·8	+ 3·2	41	0	3	0·23	− 0·51	*	*	*	*
	Edenfel (Omagh)	54	37	50·9	42·6	46·8	+ 5·3	34	0	2	0·09	− 0·74	*	*	*	*
	Blacksod Point	58	41	54·3	48·0	51·2	+ 5·6	64	0	5	0·56	− 0·67	*	*	*	*
	Markree Castle	56	38	53·3	43·4	48·4	+ 5·5	45	0	3	0·33	− 0·59	3·0	− 9·7	5	− 17
	Armagh	55	39	53·1	44·5	48·8	+ 6·3	48	0	3	0·19	− 0·47	2·4	− 11·0	4	− 19
	Donaghadee	55	42	51·9	44·3	48·1	+ 3·9	43	0	3	0·09	− 0·64	*	*	*	*
10. IRELAND, S	Dublin	58	38	54·5	42·3	48·4	+ 3·1	45	0	1	0·02	− 0·57	9·0	− 7·4	15	− 13
	Birr Castle	57	35	53·3	41·3	47·3	+ 4·0	40	2	2	0·08	− 0·60	6·2	− 8·4	11	− 14
	Kilkenny	57	34	52·6	40·7	46·7	+ 2·7	38	4	1	0·02	− 0·68	*	*	*	*
	Waterford	58	36	53·1	41·9	47·5	+ 3·0	39	0	2	0·06	− 0·88	*	*	*	*
	Roche's Point	56	39	53·1	45·9	49·5	+ 2·7	53	0	2	0·07	− 1·02	*	*	*	*
	Valencia	57	39	54·7	46·6	50·7	+ 3·3	61	0	5	0·32	− 1·00	1·0	− 14·2	2	− 24
	Killarney	59	40	56·4	46·2	51·3	+ 5·9	65	0	2	0·12	− 1·35	*	*	*	*
	Foynes	58	39	54·3	45·4	49·9	+ 5·0	55	0	1	0·18	− 0·80	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	? 57	46	55·1	48·9	52·0	+ 2·3	70	0	1	0·02	− 0·83	14·2	− 2·9	23	− 5
	Jersey	59	40	55·0	44·6	49·8	+ 1·5	55	0	2	0·13	− 0·81	26·3	+ 9·3	42	+ 15

Information for Stations marked Ⓜ is supplied by the Royal Meteorological Society, and that for Stations marked Ⓢ is supplied by the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 33 additional stations will be found in a Table on the last page of this issue.

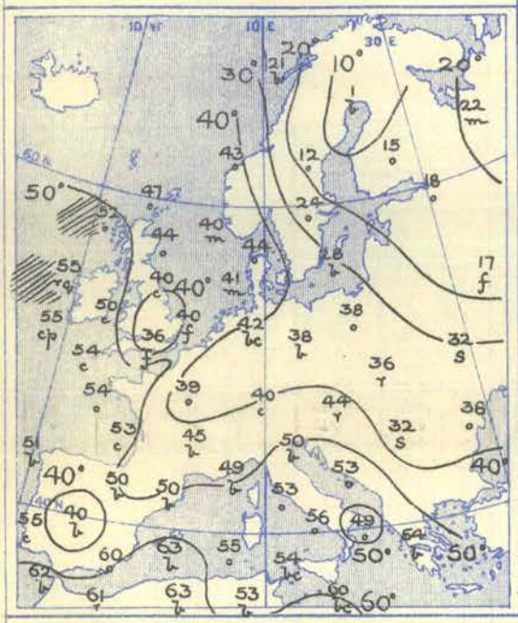
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

↓ Fog or mist.

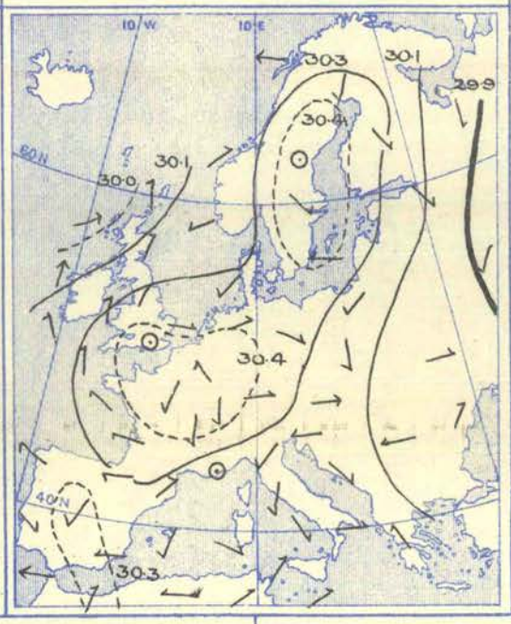
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake

Sunday, 13th November, 1904.

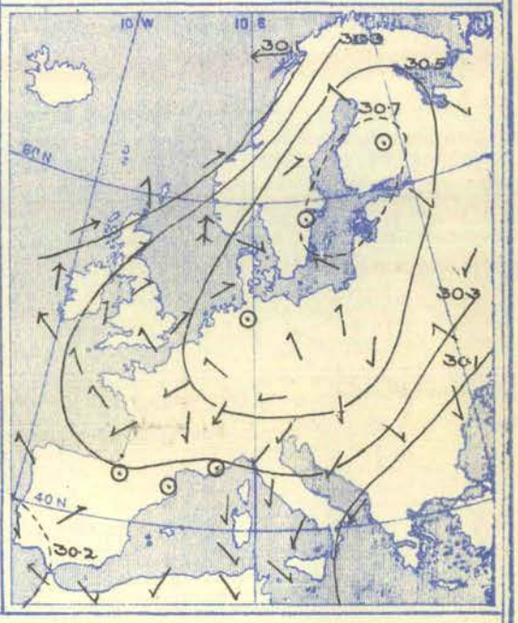
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine as a whole, but foggy over central and south-eastern England, and overcast, with much rain and snow, over Hungary and the south of Russia. Rain also falling on the west coast of Ireland. Precipitation ceasing in most places during day and fog clearing until evening over England.

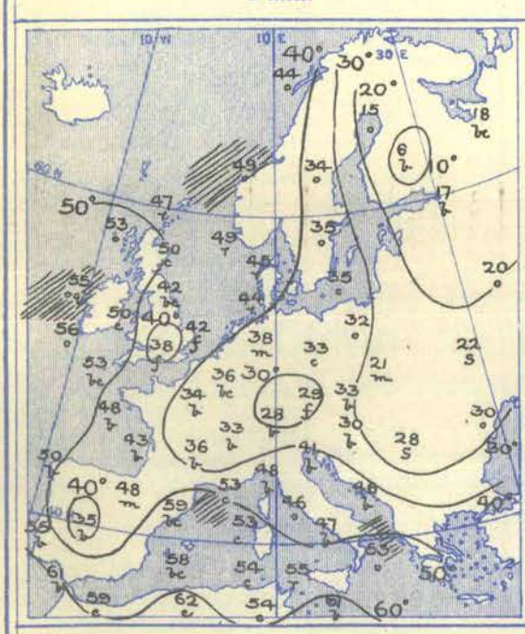
Temperature risen in Ireland, Scotland, Hungary, and the south of Russia; fallen generally elsewhere. Morning readings highest, 60° or slightly above at two or three stations in the far south. Lowest, (1) 1° at Haparanda and below 30° over the greater part of Scandinavia and Russia, (2) 31° to 33° over central England, (3) 40° at Madrid. Rising during day to 57° at some of our northern, western, and south-western stations and exceeding 60° in most southern regions. Maxima above 70° at San Fernando and on the north coast of Africa. Highest value, 77° at Sfax.

Wind at 8 a.m. light and anticyclonic generally, but a feeble cyclonic movement prevailing in the south of Russia and fresh to strong Southerly breezes on our own north-west coasts. Little change as a whole during day, but a fresh gale from South setting in on the south-west coast of Norway and a strong Northerly breeze at Turin and Brindisi.

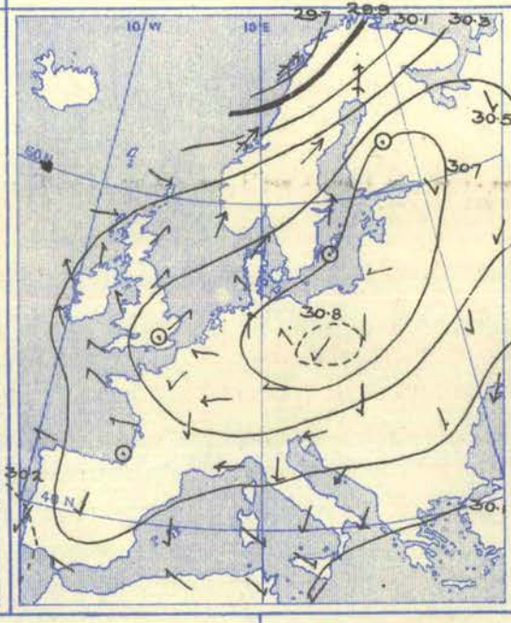
Barometer at 8 a.m. highest, 30·3 ins. to above 30·4 ins. in a large area containing two separate maxima and extending from the south-west of France to Lapland. Lowest, 29·9 ins. and less over the eastern half of Russia. Below 30·0 ins. off our own north-west coasts. High pressure increasing in intensity and moving eastwards during day. Barometer falling along the north-west of Norway and gradients becoming rather steep over Scandinavia generally.

Monday, 14th November, 1904.

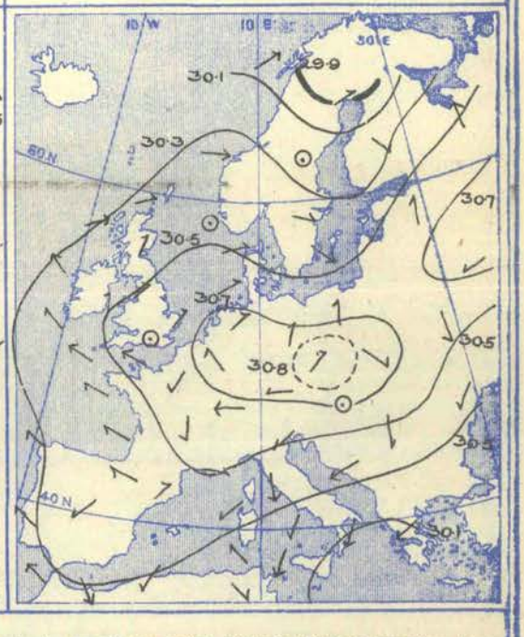
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. overcast over Scandinavia and in most parts of Russia, with snow in the north of Sweden and the south of Russia, and also at Hermanstadt. Rainy in Denmark, at Skudesnaes and Karlstad. Fine in most other regions, but foggy in the centre and south-east of England and in Holland, and rainy in Sicily. Heavy rain falling later at Malta and slight amounts of rain or snow in several parts of northern Europe.

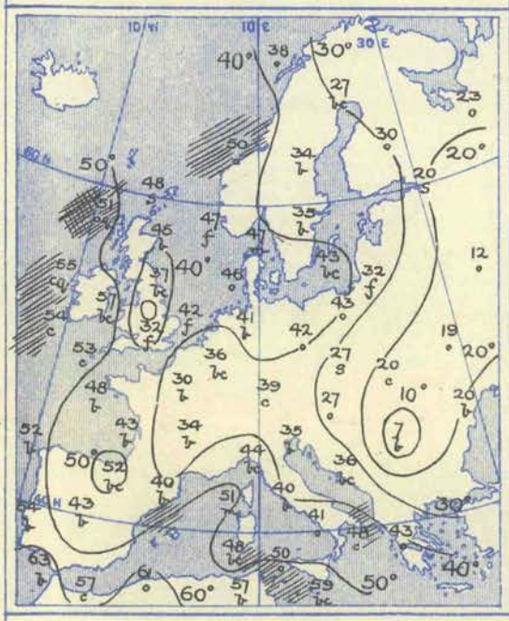
Temperature fallen many degrees over the central and southern countries and risen quickly in Scandinavia. Morning readings ranging from 62° at Algiers, 61° at Malta, 59° at Barcelona and 56° in the south-west of Ireland, to 35° at Madrid, 33° at Oxford, 31° at Haparanda, and to below 20° over Finland and the north of Russia. Lowest value, 6° at Kuopio. Frost continuing all day in the extreme north-east of Europe, but thermometer rising to 59° at Nairn, to above 60° at some stations in the far south, and to above 70° at San Fernando and in Algeria. Sharp frost over central England at night.

Wind at 8 a.m. light and anticyclonic over all the central countries, fresh or strong from the North-Eastward over Italy and its neighbourhood, and South-Westerly, fresh to a strong gale, over Norway and Sweden. Fresh or strong South-Easterly breezes prevailing in the west of Ireland. Gale ceasing in Scandinavia later, but setting in over Finland.

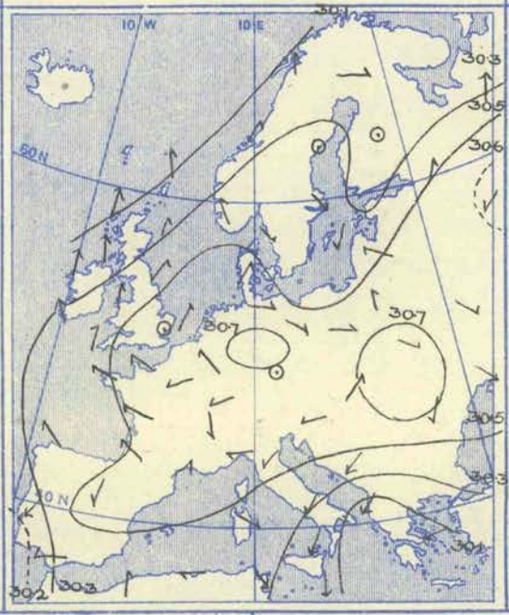
Barometer at 8 a.m. highest, 30·4 ins. to 30·8 ins. in a large anticyclone covering nearly the whole of our area and having its centre over Germany. Lowest, 29·7 ins. and less in a deep and large disturbance lying off the north-west of Norway. Another depression shown over the Mediterranean. Gradients steep over Scandinavia. Very little change occurring later within the anticyclonic system; northern depression travelling eastwards and that in the south remaining almost stationary and becoming deeper.

Tuesday, 15th November, 1904.

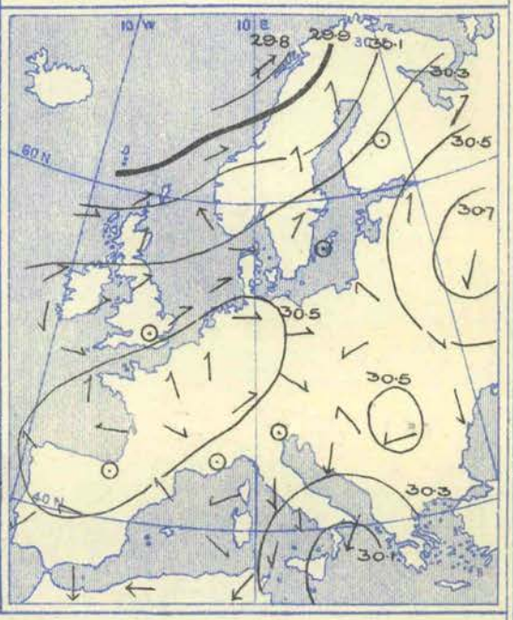
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine generally, but overcast in several parts of Russia and central Europe, and foggy over central England. Snow falling at some Russian and Polish stations and rain at Breslau. Snow falling later at Buda-Pesth, a thunderstorm occurring at Pesaro, and slight rain on various parts of our north and north-west coasts.

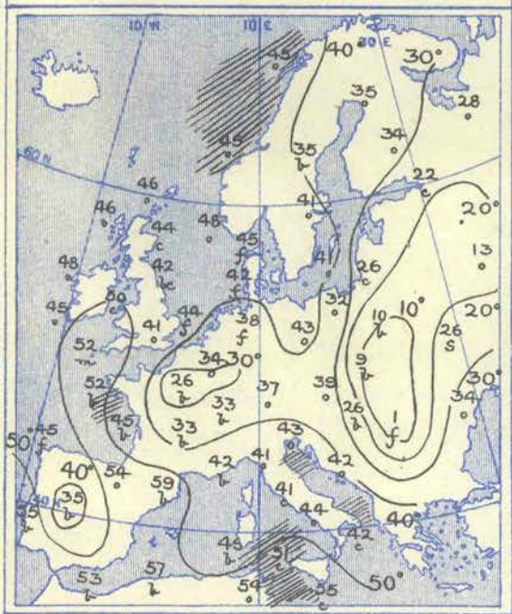
Temperature changed irregularly; risen quickly in Finland and falling quickly over Transylvania and South Russia. Morning readings highest, 63° at San Fernando, 61° at Algiers, 56° at Oporto, and 55° at Blacksod Point. Lowest, (1) 7° at Hermanstadt, 19° at Kiev, and 20° at Odessa, (2) 12° at Moscow, 20° at St. Petersburg, and 23° at Archangel, (3) 29° over central England, (4) 36° at Pesaro and 41° at Naples. Rising to 58° at Plymouth during day, to above 60° at a few southern stations, and to 70° at Oran. Maximum only 45° at Naples.

Wind at 8 a.m. strong or fresh from the Southward along our north-west coasts and in the north of Norway and of similar force from the North-Eastward and Northward over Greece and Italy. Light anticyclonic breezes prevailing over the greater part of our area. No general change later, but wind decreasing in strength on our coasts and veering to the Northward in the south of Ireland.

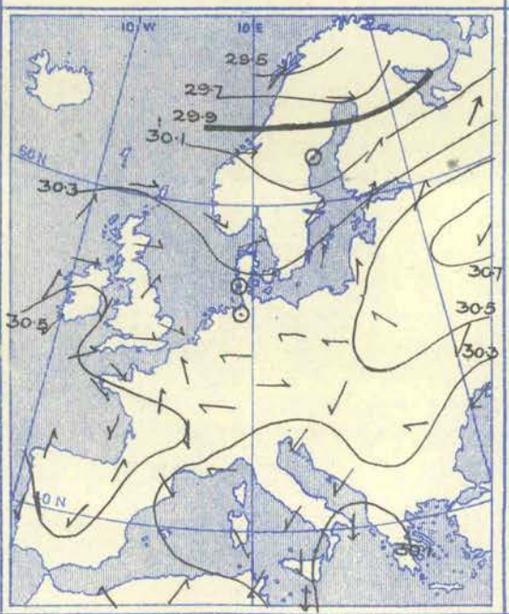
Barometer at 8 a.m. highest, 30·7 ins. and upwards in two maxima over central Europe, and above 30·5 ins. over the major part of the Continent. Lowest, less than 30·0 ins. off the north-west of Norway, and below 30·1 ins. over the Ionian Sea. A small secondary disturbance travelling across Ireland and England later, and pressure decreasing in most parts of our area except Russia.

Wednesday, 16th November, 1904.

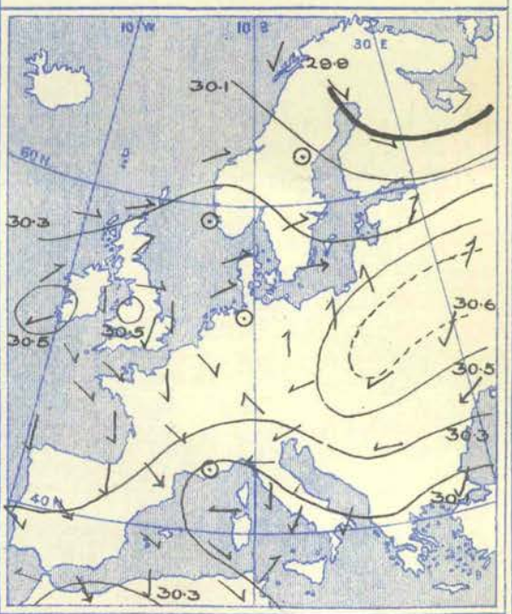
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. foggy or misty in many parts of England, Denmark, at the mouth of the Elbe, and Corunna. Fair or fine in Algeria, at most stations in the Spanish Peninsula and Poland. Cloudy or overcast elsewhere, with snow in Little Russia. Rain falling later at Palermo and in south-eastern Europe—as much as 2·6 ins. at Constantinople—but weather continuing dry generally.

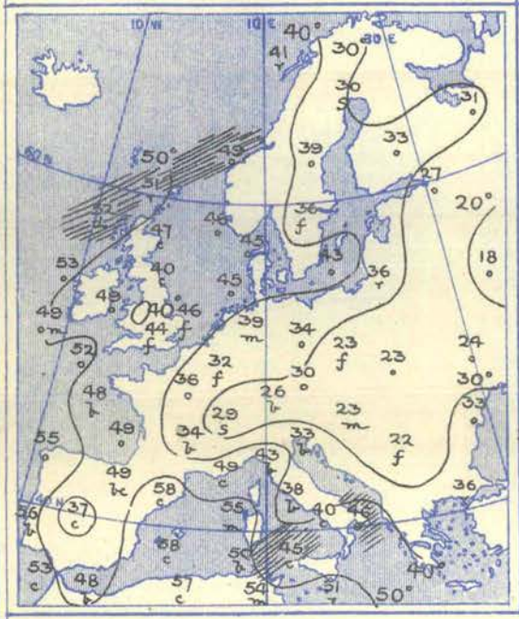
Temperature risen over England, the north and west of France, the extreme south of Russia, and in most parts of Scandinavia; fallen in most other regions. Morning readings highest, 59° at Barcelona, 58° at Perpignan, and 55° at Lisbon. Lowest, (1) 8° at Kharkov, 9° at Cracow, 13° at Moscow, 22° at St. Petersburg, (2) 26° at Paris, 29° at Limoges, (3) 35° at Madrid, (4) between 35° and 42° in Italy. Rising during day to 72° at San Fernando, 70° at Palma, and to above 60° at several other stations in the south. Not exceeding 50° in some parts of Italy and remaining much below it over central Europe. Frost continuing all day in Russia and its neighbourhood.

Wind at 8 a.m. light to fresh or strong from between South and West over the northern countries generally and strong to a gale in the north-west of Norway. Moderate to fresh or strong from some Northerly point in the southern countries. Not much change later, but gale dying out in the north and some decrease taking place in the force in the south.

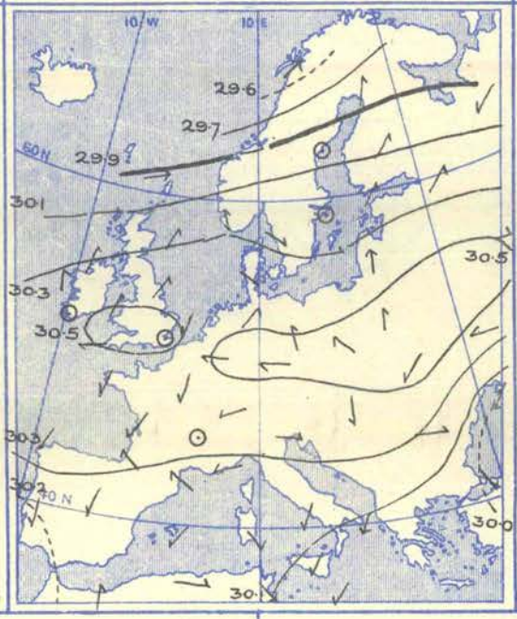
Barometer at 8 a.m. highest, 30·7 ins. and upwards over central Russia and relatively high in an irregularly shaped band stretching thence to the United Kingdom. Lowest, less than 29·5 ins. in Lapland, and below 30·1 ins. over the Ionian Sea and its neighbourhood. Northern disturbance apparently moving quickly eastwards later and becoming less deep. No general change taking place in the distribution of pressure.

Thursday, 17th November, 1904.

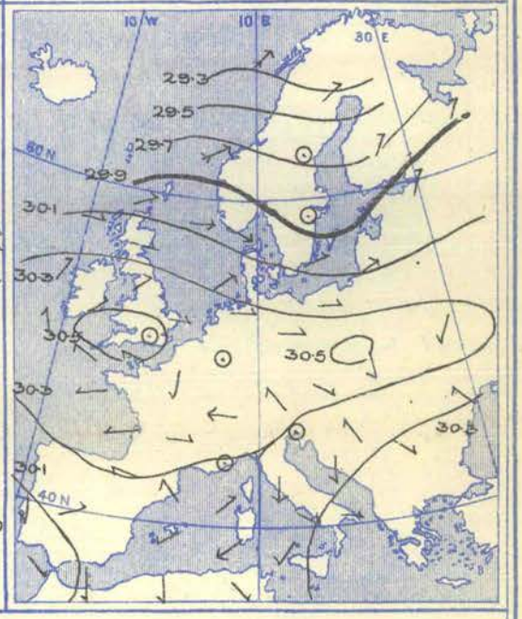
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine in several localities, but dull over Russia and northern Europe. Fog prevailing in the Midlands and south-east of England and at various Continental stations, rain in the Shetlands and Hebrides, at Memel and Bodö, and snow at Haparanda and Belfort. Some considerable falls of snow experienced later in some parts of Russia and Transylvania. Fog continuing all day in some English localities.

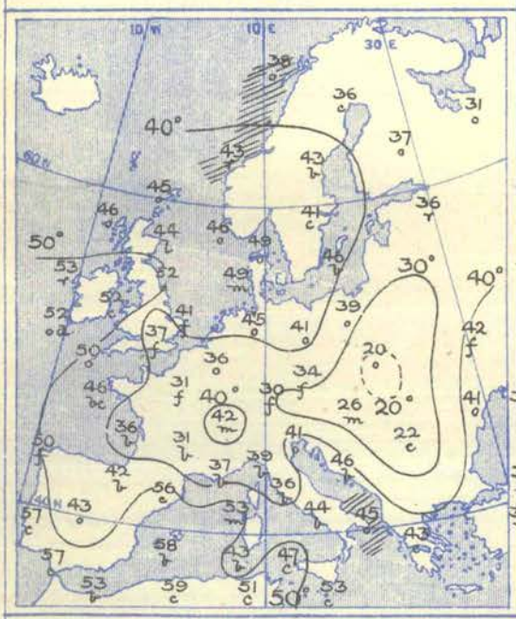
Temperature changed rather irregularly; fallen in most parts of central and southern Europe. Morning readings highest, 58° at Palma and Barcelona, 57° at Algiers and 56° at Lisbon. Lowest, (1) 18° at Moscow and below the freezing point over Russia and the centre of Europe generally, (2) 36° to 38° over the central parts of England and Ireland, (3) 37° at Madrid, (4) 38° at Rome, 40° at Naples, and 45° at Palermo. Rising later to above 65° at a few extreme southern stations, but not exceeding 50° in some parts of Italy and continuing below 32° in several parts of Russia and Poland.

Wind at 8 a.m. blowing a strong breeze from South-West at Bodö and from North-East at Brindisi and in the south of Russia, but generally light or moderate from West or South-West over the northern half of our area, and from between North and East in the south. A South-Westerly gale setting in later on the coast of Norway and strong winds in Denmark.

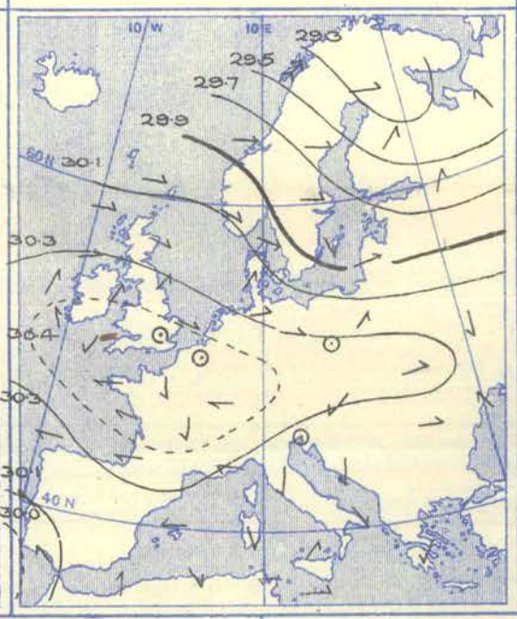
Barometer at 8 a.m. highest, 30·5 ins. and upwards in a narrow band extending almost uninterruptedly from the south of Ireland to Moscow. Lowest, less than 29·6 ins. in the extreme north-west of Norway and below 30·0 ins. over the Black Sea. No change in the general distribution occurring later, but a brisk fall of the barometer taking place in the extreme north-west and north of Europe.

Friday, 18th November, 1904.

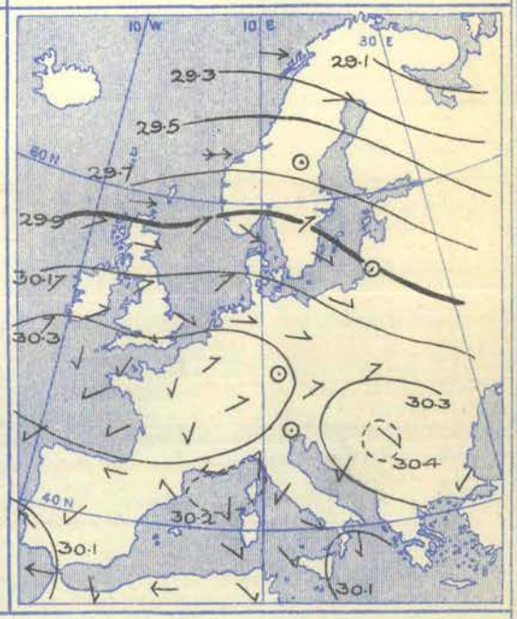
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. still foggy in many parts of England and in some localities on the Continent. Fair or fine in most southern districts, but cloudy or overcast in our area generally, with rain on the west coast of Ireland and also at Christiansund, St. Petersburg, and Kharkov. Some rain falling later in the west and north of our Islands and as much as 0·6 in. at Christiansund.

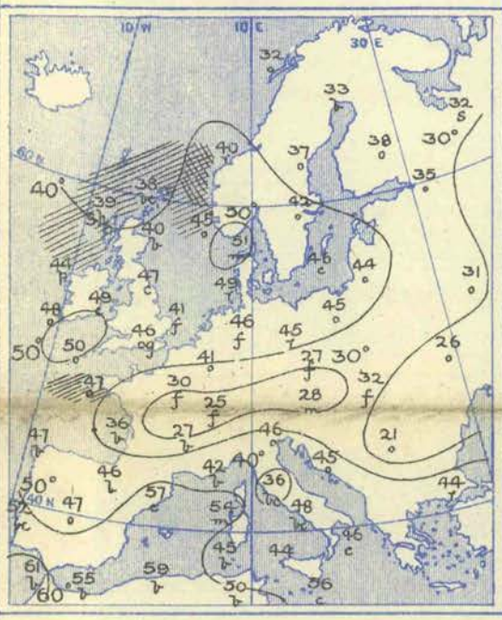
Temperature changed irregularly, but risen in most places. Morning readings highest, 59° at Algiers, 58° at Palma, and 57° at Lisbon. Lowest, (1) 18° at Cracow and only a few degrees higher in Poland generally, (2) 31° at Paris and 28° at Limoges, (3) 31° at Florence, 35° at Pesaro, and 36° at Rome, (4) 37° or 38° over central England. Rising later to 72° at San Fernando and to 68° at Algiers, but remaining below 60° in the south generally and below 32° in some parts of Hungary.

Wind at 8 a.m. light and anticyclonic in most regions, but a strong Westerly current prevailing over northern Europe; an irregular cyclonic circulation of little strength shown in the South-East. No general change later.

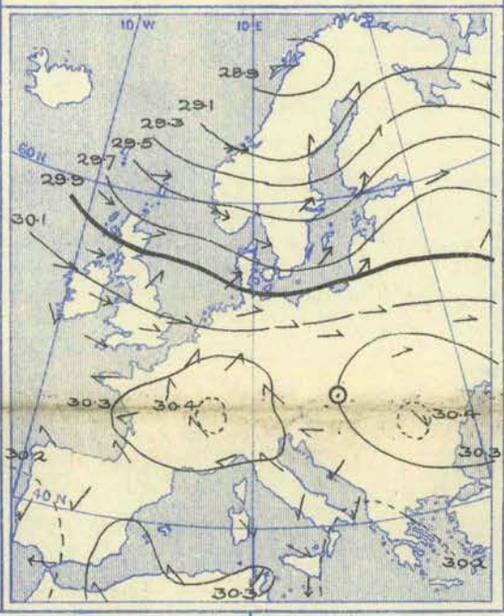
Barometer at 8 a.m. highest, 30·4 ins. and upwards to 30·2 ins. in an anticyclone extending from the west of Ireland to the south of Russia. Lowest, below 29·3 ins. in a depression over Lapland; relatively low in depressions over the south-west and south-east of our area. Northern depression moving eastwards during day, but some secondary systems arriving off our north and north-west coasts. Little change taking place in the general distribution of pressure.

Saturday, 19th November, 1904.

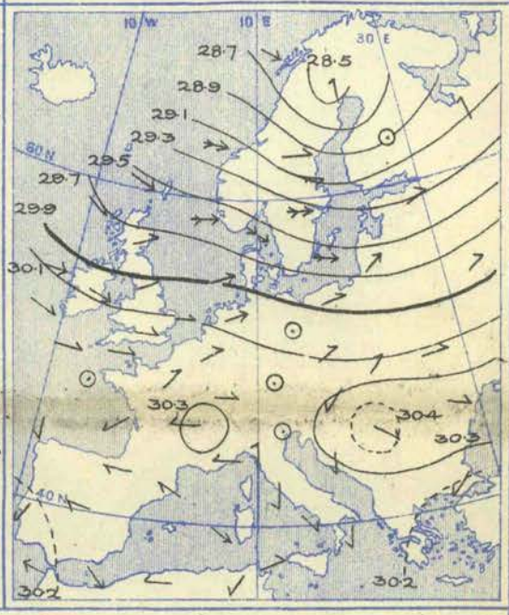
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine in many parts of our Islands and in the southern countries; cloudy or overcast in the centre and north of Europe, with snow at Archangel and rain or fog in several Danish, German, Austrian, and Hungarian localities. Some rain falling later on our north-west coasts and in a few northern localities on the Continent.

Temperature fallen generally, but risen on the shores of the English Channel and in Poland and its vicinity. Readings in morning highest, 61° at San Fernando, 59° at Algiers, and 57° at Barcelona. Lowest, (1) 21° at Hermanstadt, (2) 22° at Munich, (3) 31° at Moscow, 32° at Archangel and Bodö, (4) 36° at Rome. Rising to 70° during day at San Fernando, 68° in Algeria, and 64° at Croisette. Day very cool generally, maximum temperatures not exceeding 32° at Buda-Pesth and 30° at Hermanstadt.

Wind at 8 a.m. showing a very extensive cyclonic circulation over all the more northern countries, the Westerly current being strong to a gale in Scotland, Denmark, and the southern half of Scandinavia. Light anticyclonic airs prevailing in the south, but a strong Easterly breeze blowing at San Fernando. Scarcely any change occurring later.

Barometer in morning ranging from between 30·3 ins. to 30·4 in a large area extending from the Bay of Biscay to the Black Sea, to less than 28·9 ins. in a deep depression centred over the extreme north of Norway. Northern disturbance increasing in depth during day, the barometer at Haparanda being as low as 28·5 ins. by 6 p.m. Gradients increasing very generally over the northern half of our area.

IV.—GENERAL NOTES, etc.

At the commencement of the week an extensive high pressure system extended from the Bay of Biscay to Lapland, while the barometer was apparently much lower over the north-eastern portion of the Atlantic. The anticyclone soon underwent some change both in form and position, but during the greater part of the period it stretched from France and the south of our Islands eastwards to Russia. Large and deep depressions subsequently travelled eastwards across the north of Europe causing strong winds or gales from between South and West, while other systems, less deep, but of considerable importance, appeared over various parts of southern Europe and the Mediterranean. The latter provoked a strong Northerly or North-Easterly current of wind over Italy and its neighbourhood under the influence of which the temperature fell quickly and became very low for the time of year. Frost was experienced at Florence, and as far south as Naples the thermometer was often below 40°. The amount of precipitation was not large in any part of our area and was mostly confined to the extreme north and north-west. Fog and mist were very prevalent over England and the nearer parts of the Continent, and were sometimes experienced over central Europe. A deep depression that was centred in the far north at the close of the period was causing a fall of the barometer in all except the southern regions and a great extension southwards of the westerly wind current.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 272.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	8·2	− 0·1	16	0
STRATHPEFFER SPA	14·6	+ 5·3	27	+ 10
CRATHES	28·7	—	53	—
BALRUDDERY	16·8	—	31	—
EDINBURGH	11·3	+ 1·0	21	+ 2
COCKLE PARK	22·7	—	40	—
NEWCASTLE-on-TYNE	8·7	—	15	—
YORK	11·6	+ 3·0	20	+ 5
SKEGNESS	22·8	—	39	—
CROMER	27·3	—	46	—
LOWESTOFT	20·7	—	35	—
DUNMOW	16·0	—	27	—
SHEFFIELD	23·4	—	40	—
WORKSOP	15·2	+ 4·8	26	+ 8
THURCASTON	17·7	+ 6·3	30	+ 11
MARGATE	19·7	+ 5·9	33	+ 10
BROADSTAIRS	—	—	—	—
RAMSGATE	21·8	—	36	—
EASTBOURNE	23·8	+ 9·4	39	+ 15
BRIGHTON	24·8	+ 9·5	41	+ 16
WORTHING	22·3	—	37	—
BOGNOR	21·2†	—	35†	—
WESTBOURNE	16·0†	+ 2·5	26†	+ 4
VENTNOR HOSPITAL	17·7	+ 3·1	29	+ 5
BOURNEMOUTH	16·2	—	27	—
MARLBOROUGH	12·9	+ 1·9	22	+ 3
SOUTHPORT	16·6	—	29	—
RHYL	22·2	—	38	—
ABERDOVEY	33·1†	—	56†	—
TENBY	15·5	+ 1·3	26	+ 2
TORQUAY	29·6	+ 15·3	49	+ 25
NEWQUAY	19·6	+ 2·6	32	+ 4
GUERNSEY	22·8†	+ 9·0	37†	+ 14

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 32, page 188	Cullompton	—	—	—	—	—	—	—	—	—	—	—	59·9	+ 17·9	—	+ 17
" " "	Blacksod	—	—	—	50·4	55·4	− 2·5	94	—	—	—	—	—	—	—	—
" " 192	Ventnor	—	—	—	—	—	—	—	—	—	—	—	68·7	+ 21·8	67	+ 21
No. 33, page 194	Spurn Head	—	—	—	52·6	57·3	− 2·0	107	—	—	—	—	—	—	—	—
" " "	Laudale	—	—	—	47·9	54·6	− 2·4	88	—	—	—	—	—	—	—	—
No. 34, page 200	Aberdeen	—	—	59·9	—	52·2	− 3·2	—	—	—	—	—	—	—	—	—

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TWENTY-SEVENTH YEAR. *Vol. XXI. (New Series.)* No. 47. FORTY-SEVENTH WEEK, ENDING SATURDAY, NOVEMBER 26TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS (See p. 278.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	45	12	37·1	26·4	31·8	9 below	0	−15	71	+51	2041	+ 58	595	− 66
	1. SCOTLAND, EAST	44	7	36·9	26·5	31·7	8 below	0	−16	72	+47	2233	−100	716	− 11
	2. ENGLAND, N.E.	49	15	39·4	29·5	34·5	7 below	0	−19	53	+35	2751	+193	517	− 53
	3. ENGLAND, EAST	50	8	38·7	28·0	33·4	9 below	0	−22	60	+40	3053	+ 90	482	−146
	4. MIDLAND COUNTIES	48	11	38·4	25·3	31·9	10 below	0	−21	71	+49	2796	−104	602	− 56
	5. ENGLAND, SOUTH	50	20	39·7	29·9	34·8	9 below	0	−30	50	+36	3129	−141	409	− 46
Principal Grazing Districts.	6. SCOTLAND, WEST	44	17	37·7	27·3	32·5	10 below	0	−21	67	+52	2476	− 18	456	− 38
	7. ENGLAND, N.W.	48	12	39·2	30·3	34·8	8 below	0	−23	50	+37	2703	− 43	443	− 12
	8. ENGLAND, S.W.	51	12	41·2	30·1	35·7	8 below	0	−33	44	+34	3090	+ 18	305	− 41
	9. IRELAND, NORTH	49	20	41·1	31·6	36·4	6 below	0	−23	39	+25	2515	−126	379	− 44
	10. IRELAND SOUTH	51	21	42·8	31·2	37·0	8 below	2	−30	38	+27	2995	− 26	270	− 40
	— CHANNEL ISLANDS	52	32	46·8	39·2	43·0	5 below	19	−29	8	+ 6	3671	+ 53	88	− 40

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 278.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	8	3 less	225	+21	45·7	+ 2·6	9	+ 2	18	+ 4	1153	+ 58	28	+ 1
	1. SCOTLAND, EAST	4	6	1 less	179	+ 3	23·5	− 4·5	17	+ 6	33	+12	1241	− 29	30	− 1
	2. ENGLAND, N.E.	4	12	6 more	147	−15	19·2	− 3·4	17	+ 4	30	+ 7	1397	− 8	34	0
	3. ENGLAND, EAST	4	5	0 (average)	145	−18	18·1	− 3·8	16	+ 3	28	+ 5	1604	+ 38	39	+ 1
	4. MIDLAND COUNTIES	3	6	0 (average)	154	− 1	21·8	− 3·0	16	+ 8	27	+15	1349	+ 42	33	+ 1
	5. ENGLAND, SOUTH	2	2	5 less	157	+ 5	23·4	− 1·9	22	+12	37	+21	1578	+ 39	38	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	4	5	8 less	185	+ 4	43·5	− 0·8	20	+12	36	+21	1285	− 41	31	− 1
	7. ENGLAND, N.W.	3	6	2 less	172	+ 1	28·0	− 3·2	14	+ 7	25	+12	1402	+130	34	+ 3
	8. ENGLAND, S.W.	4	7	2 less	174	+ 1	33·6	− 0·2	19	+ 8	33	+13	1495	− 87	36	− 2
	9. IRELAND, NORTH	7	15	7 more	226	+21	35·5	+ 3·0	14	+ 2	26	+ 4	1192	− 34	29	− 1
	10. IRELAND, SOUTH	4	8	2 less	195	+10	36·2	+ 0·4	19	+ 5	35	+ 9	1375	− 25	33	− 1
	— CHANNEL ISLANDS	7	20	11 more	204	+26	31·7	+ 2·8	24	+ 9	40	+15	1763	− 61	43	− 1

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather. An extremely rough, cold, and unsettled week was experienced. During the earlier half of the period large quantities of snow fell in all the more northern districts and smaller amounts elsewhere, and later on the western and northern districts had further falls of hail, sleet, or rain. The snow was accompanied by a thunderstorm at some northern stations and also in the Scilly Islands.

Temperature was much below the mean, the deficit ranging from 5° in the Channel Islands and 6° in Ireland N. to 8° or 9° in most other districts, and to 10° in the Midland Counties and Scotland W. The highest of the maxima occurred on Sunday, and varied from 52° in the Channel Islands and 51° in England S.W. and Ireland S. to 44° in Scotland E. and W. Later in the week the maxima were much lower; in some places on Saturday the thermometer remained below 32° throughout the day. The lowest of the minima, which were registered between the 22nd and 26th, were abnormally low for the time of year. In Scotland E. (at Braemar) a reading of 7° was recorded, and in England E. (at Cambridge) one of 8°, while elsewhere the minima ranged from 11° in the Midland Counties and 12° in Scotland N. and England N.W. and S.W., to 21° in Ireland N. and to 32° in the Channel Islands.

Rainfall was considerably in excess of the average in England N.E., Ireland N., and the Channel Islands, and just equalled it in England E. and the Midland Counties; elsewhere there was less than the normal.

Bright Sunshine was above the mean, the excess in many cases being considerable. The percentage of the possible duration ranged from 40 in the Channel Islands, 37 in England S., and 36 in Scotland W. to 25 in England N.W. and to 18 in Scotland N.

Barometer and Wind. Soon after the commencement of the week a depression appeared off our north-west coasts and seemed to be of little importance, but as it travelled south-eastwards to Lancashire and subsequently eastwards to the North Sea it increased quickly in depth and produced a moderate or fresh to strong gale from the Northward or North-Westward throughout our Islands. This disturbance was followed by very small secondary systems, and it was not until towards the end of the week that it ceased to affect the weather in our Islands. During Friday night a rather small depression moved southwards down the Irish Sea and St. George's Channel to Brittany, but its effect on the wind and weather was very temporary.

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II.—DATA from which the SUMMARY on page 277 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	45	25	39·0	31·0	35·0	− 6·5	0	49	5	0·68	− 0·29	*	*	*	*
	Stornoway	43	26	38·4	30·7	34·6	− 6·6	0	52	7	1·75	+ 0·50	10·4	+ 2·2	21	+ 4
	Wick	42	15	40·0	26·3	33·2	− 7·5	0	62	4	0·23	− 0·44	*	*	*	*
	Lairg 𝔖	36	14	33·8	21·8	27·8	− 9·8	0	99	? 6	1·20	+ 0·36	*	*	*	*
	Glencarron 𝔖	38	15	36·0	25·4	30·7	− 9·0	0	79	7	0·68	− 1·57	*	*	*	*
	Fort Augustus 𝔖	39	12	35·6	22·9	29·3	−11·3	0	89	5	0·46	− 0·60	4·9	+ 1·4	10	+ 3
1. SCOTLAND, E.	Nairn	41	12	37·4	27·0	32·2	− 7·8	0	69	6	0·45	− 0·04	*	*	*	*
	Aberdeen	40	20	37·3	28·1	32·7	− 7·6	0	65	3	0·80	+ 0·08	21·1	+ 9·9	41	+ 19
	Braemar 𝔖	34	7	32·2	18·6	25·4	−11·9	0	116	6	0·75	− 0·09	*	*	*	*
	Ochtertyre 𝔖	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Leith	44	26	39·3	30·7	35·0	− 7·0	0	49	3	0·15	− 0·31	*	*	*	*
	Marchmont 𝔖	41	24	38·1	27·9	33·0	− 6·5	0	63	2	0·69	− 0·06	14·8	+ 4·2	28	+ 8
2. ENGLAND, N.E.	Alnwick Castle	43	25	39·6	30·1	34·9	− 6·4	0	50	4	3·22	+ 2·48	*	*	*	*
	Durham	43	22	36·9	27·3	32·1	− 8·3	0	69	5	1·03	+ 0·43	16·0	+ 5·0	30	+ 9
	Shields	42	27	39·6	30·3	35·0	− 7·2	0	49	5	1·35	+ 0·82	*	*	*	*
	Scarborough 𝔐	49	30	43·7	32·4	38·1	− 4·2	5	35	5	1·23	+ 0·60	14·0	—	26	—
	Spurn Head	46	31	41·9	34·3	38·1	− 4·7	0	27	4	0·63	+ 0·13	*	*	*	*
	Lincoln	44	15	38·4	26·2	32·3	−10·4	0	68	4	0·50	+ 0·04	*	*	*	*
	Fulbeck (Lincolnshire)	42	17	35·9	25·6	30·8	− 9·6	0	78	3	0·34	− 0·10	20·0	—	36	—
3. ENGLAND, E.	Hillington 𝔐	47	15	38·5	27·4	33·0	− 8·2	0	63	6	0·67	+ 0·08	11·7	+ 0·3	21	+ 1
	Yarmouth	44	26	37·9	30·4	34·2	− 8·3	0	55	6	1·43	+ 0·79	*	*	*	*
	Geldeston	46	20	40·0	28·0	34·0	− 8·3	0	56	6	0·84	+ 0·28	13·9	+ 0·7	24	+ 1
	Cambridge	47	8	37·9	24·0	31·0	−10·4	0	77	3	0·37	− 0·06	13·0	+ 0·5	23	+ 1
	Felixstowe	45	24	39·7	28·1	33·9	− 8·5	0	57	2	0·51	—	22·1	—	39	—
	Clacton-on-Sea	50	25	39·3	29·3	34·3	− 8·5	0	54	4	0·17	—	24·4†	—	42†	—
	Rothamsted	46	19	38·0	26·0	32·0	− 9·3	0	70	5	0·21	− 0·41	23·0	+ 10·8	40	+ 19
	Shoeburyness	46	26	38·6	30·6	34·6	− 8·5	0	52	3	0·13	− 0·33	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	44	26	37·7	29·2	33·5	− 7·1	0	60	5	2·40	+ 1·73	16·2	—	30	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	44	13	38·0	23·3	30·7	−10·8	0	79	3	0·34	− 0·09	9·2	—	16	—
	Colly Weston (Stamford)	44	15	39·1	25·0	32·1	− 9·3	0	69	3	0·36	− 0·18	*	*	*	*
	Cheadle 𝔐	44	21	36·8	27·1	32·0	− 8·4	0	70	2	0·25	− 0·43	*	*	*	*
	Birmingham (Edgbaston)	45	20	36·9	27·1	32·0	− 9·6	0	70	2	0·51	− 0·03	8·3	—	15	—
	Shrewsbury	47	15	40·6	24·6	32·6	− 9·7	0	66	2	0·25	—	*	*	*	*
	Hereford 𝔐	48	11	39·6	23·6	31·6	−10·6	0	73	2	0·45	− 0·11	*	*	*	*
	Cirencester	47	13	39·6	23·1	31·4	− 9·5	0	74	2	0·43	− 0·24	27·9	+ 16·3	48	+ 28
	Oxford	48	17	37·7	24·9	31·3	−11·0	0	75	3	0·28	− 0·25	21·8	+ 9·8	38	+ 17
5. ENGLAND, S.	London	46	24	38·4	29·3	33·9	− 9·1	0	57	3	0·13	− 0·39	8·5‡	+ 1·3‡	15‡	+ 2‡
	Wisley (Surrey)	47	21	38·6	27·8	33·2	−10·8	0	62	3	0·18	—	18·3	—	32	—
	Swarraton (Alresford) 𝔐	44	20	37·4	26·0	31·7	− 9·7	0	72	2	0·14	− 0·56	*	*	*	*
	Tunbridge Wells 𝔐	45	24	37·1	28·9	33·0	− 9·5	0	63	3	0·12	—	15·8	—	27	—
	Dungeness	50	25	41·0	29·4	35·2	− 9·1	0	48	1	0·25	− 0·31	21·4	—	36	—
	Hastings (St. Leonards)	50	26	41·4	31·3	36·4	− 7·8	0	39	1	0·37	− 0·36	26·0	+ 11·1	44	+ 19
	Southampton	50	27	42·0	30·6	36·3	− 7·7	0	40	1	0·13	− 0·59	26·8	+ 14·2	45	+ 24
	Portland Bill	49	31	43·3	35·7	39·5	− 6·0	4	23	2	0·14	—	*	*	*	*
	Shaftesbury 𝔐	44	27	38·4	30·2	34·3	− 6·7	0	54	1	0·07	− 0·72	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	40	17	37·9	26·7	32·3	−10·3	0	68	6	0·67	− 1·31	*	*	*	*
	Glasgow	41	23	37·3	29·0	33·2	− 8·1	0	62	3	0·14	− 0·74	13·9	+ 8·7	26	+ 16
	Cally 𝔖	40	20	36·4	26·4	31·4	−10·0	0	74	2	0·11	− 1·13	*	*	*	*
	Aspatria	44	18	36·1	23·8	30·0	−11·5	0	84	4	1·11	—	17·7	—	33	—
	Douglas (Isle of Man)	44	28	40·7	30·8	35·8	− 8·0	0	43	5	0·66	− 0·40	26·9	+ 14·4	49	+ 26
7. ENGLAND, N.W.	Newton Rigg	43	12	33·7	23·0	28·4	−11·0	0	95	3	1·47	—	11·5	—	21	—
	Stonyhurst	44	22	37·4	29·4	33·4	− 8·0	0	60	2	0·20	− 0·83	19·4	+ 10·7	35	+ 19
	Blackpool 𝔐	46	24	40·0	30·7	35·4	− 7·0	0	46	2	0·31	− 0·44	17·9	+ 9·2	32	+ 17
	Manchester (Prestwich)	44	17	37·4	26·7	32·1	− 9·4	0	69	4	0·35	− 0·45	8·7	—	16	—
	Liverpool Obsy. (Bidston)	44	31	39·7	33·3	36·5	− 6·6	0	39	4	0·50	− 0·13	10·9	—	20	—
	Chester (Hawarden Bridge)	45	22	39·0	30·7	34·9	− 8·6	0	50	2	0·32	—	*	*	*	*
	Llandudno 𝔐	48	30	42·9	34·6	38·8	− 5·9	3	27	4	0·32	− 0·44	10·3	− 0·3	18	− 1
	Holyhead	45	31	43·1	35·0	39·1	− 6·4	3	26	4	1·05	+ 0·13	*	*	*	*
	Bettws-y-Coed	46	24	39·7	29·2	34·5	−10·2	0	53	4	0·70	—	8·6	—	15	—
8. ENGLAND, S.W.	Llangammarch Wells	44	12	37·5	23·0	30·3	−10·6	0	82	3	0·41	—	12·0	—	21	—
	Pembroke	48	33	44·7	36·9	40·8	− 5·7	8	20	6	1·32	+ 0·42	20·3	+ 7·4	35	+ 13
	Cardiff	48	18	40·8	26·2	33·5	−11·7	0	60	3	0·33	—	*	*	*	*
	Clifton	47	25	39·3	31·5	35·4	− 7·3	0	46	2	0·48	− 0·28	*	*	*	*
	Bath	50	21	39·6	27·1	33·4	−10·0	0	60	2	0·26	− 0·42	17·1	—	30	—
	Arlington (N. Devon)	47	23	40·9	30·7	35·8	− 7·3	0	43	5	0·94	− 0·42	*	*	*	*
	Cullompton 𝔐	49	21	41·1	29·0	35·1	− 7·5	0	48	5	0·54	− 0·31	25·9	+ 14·9	44	+ 25
	Falmouth	51	31	44·5	35·0	39·8	− 7·0	7	27	6	1·44	+ 0·20	17·6	+ 2·5	30	+ 4
	Plymouth	50	26	42·5	31·9	37·2	− 8·4	1	36	3	0·93	+ 0·07	24·6	+ 11·1	42	+ 19
9. IRELAND, N.	Malin Head	49	32	43·1	35·4	39·3	− 4·5	3	24	7	1·51	+ 0·77	*	*	*	*
	Edenfel (Omagh)	40	20	37·3	28·3	32·8	− 7·7	0	64	7	1·44	+ 0·61	*	*	*	*
	Blacksod Point	48	32	44·1	36·3	40·2	− 4·7	6	21	7	2·20	+ 0·94	*	*	*	*
	Markree Castle	46	24	41·1	28·2	34·7	− 7·4	0	51	7	2·77	+ 1·84	8·9	− 2·7	16	− 5
	Armagh	43	20	38·8	27·1	33·0	− 7·5	0	63	7	0·70	+ 0·03	19·3	+ 7·3	35	+ 13
	Donaghadee	44	29	42·1	34·3	38·2	− 5·3	0	27	4	0·45	− 0·26	*	*	*	*
10. IRELAND, S.	Dublin	44	27	41·4	30·4	35·9	− 8·6	0	43	2	0·35	− 0·24	24·3	+ 9·1	43	+ 16
	Birr Castle	44	21	39·4	25·7	32·6	− 9·7	0	66	4	1·08	+ 0·41	20·1	+ 6·7	36	+ 12
	Kilkenny	45	23	40·6	27·7	34·2	− 9·0	0	55	2	0·53	− 0·15	*	*	*	*
	Waterford	51	25	44·3	30·6	37·5	− 6·1	6	42	1	0·44	− 0·51	*	*	*	*
	Roche's Point	48	30	43·6	35·1	39·4	− 6·9	4	26	5	0·33	− 0·80	*	*	*	*
	Valencia	50	32	46·6	35·4	41·0	− 5·8	13	26	6	1·32	− 0·02	13·4	− 0·3	24	− 1
	Killarney	50	25	44·3	30·6	37·5	− 7·6	6	42	6	1·29	− 0·23	*	*	*	*
	Foynes	49	31	41·9	34·3	38·1	− 6·1	0	27	3	1·04	+ 0·04	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	37	46·9	40·0	43·5	− 5·5	19	6	7	1·73	+ 0·86	16·6	+ 0·6	28	+ 1
	Jersey	52	32	46·7	38·3	42·5	− 4·8	19	10	7	2·32	+ 1·38	30·7	+ 14·5	51	+ 24

Information for Stations marked 𝔐 is supplied by the Royal Meteorological Society, and that for Stations marked 𝔖 is supplied by the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

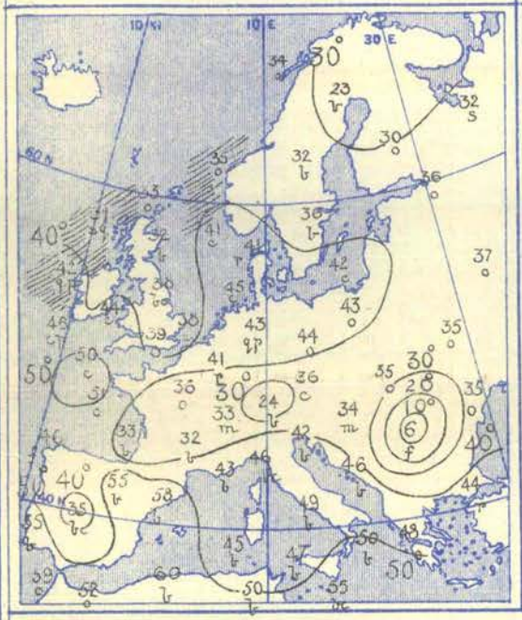
† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 33 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

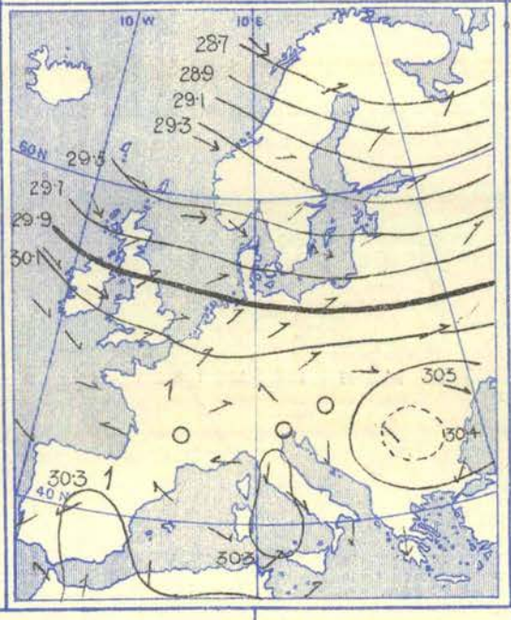
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 20th November, 1904.

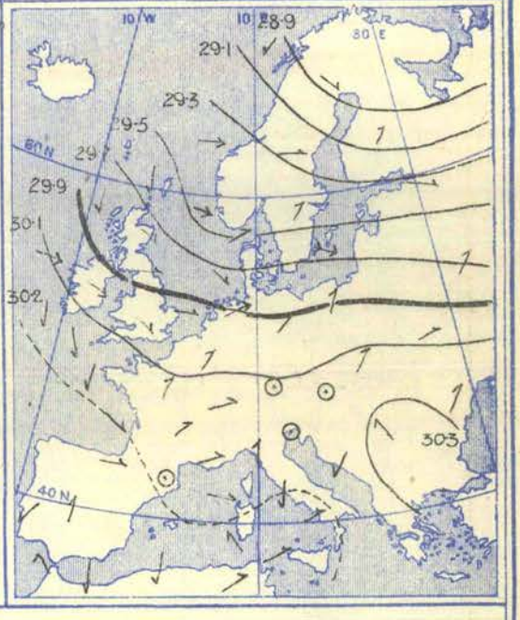
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast in most of the northern and eastern regions and generally fair in the south. Snow falling at Archangel and in the north of Scotland, rain in a few parts of Ireland and England and also at Brussels, Skagen, and Swinemünde. Fog prevailing at Corunna, Buda-Pesth, and Hermanstadt. Slight amounts of precipitation later in some parts of our area, but none in central Europe.

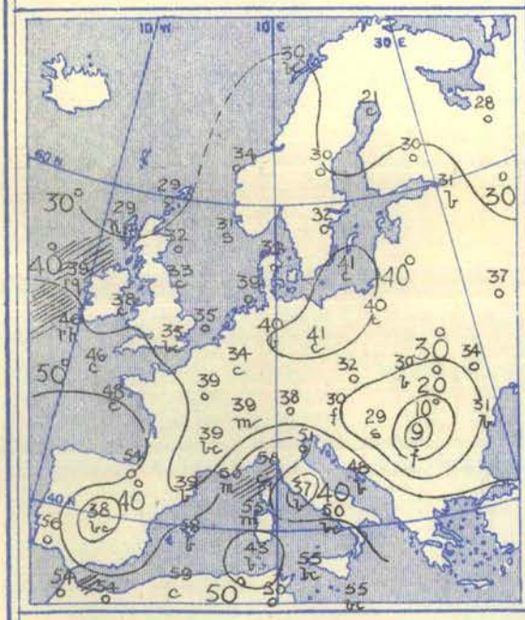
Temperature fallen except at a few stations in the far south. Morning readings ranging from 60° at Algiers, 59° at San Fernando, and 58° at Barcelona, to below 40° over all the central and northern regions, to 24° at Munich, and to 23° at Haparanda. Rising subsequently to about 50° at some of our own stations, to above 60° at some stations in the extreme south, and to about 70° at San Fernando and Algiers. Frost continuing all day at Hermanstadt.

Wind at 8 a.m. Westerly over all the northern half of our area; strong on many parts of our own coasts and strong to a gale over Scandinavia. Light variable breezes prevailing in the more southern regions. Wind decreasing in force later and becoming Northerly or North-Westerly over the United Kingdom.

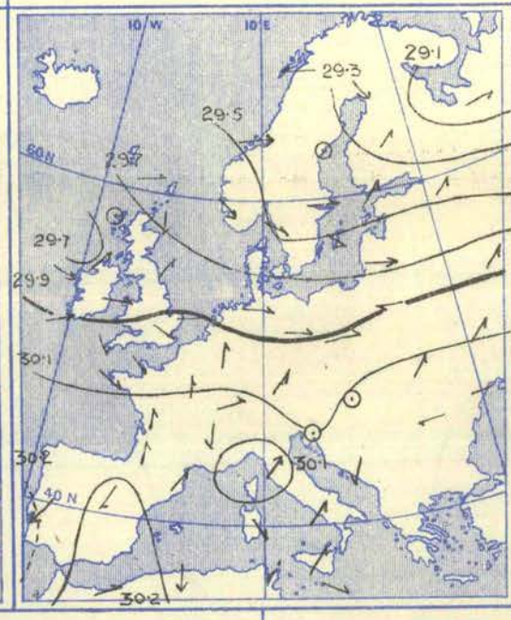
Barometer at 8 a.m. highest, above 30·4 ins. in Roumania and above 30·2 ins. in a large area stretching from the Atlantic to the Black Sea. Lowest, less than 28·7 ins. in a very large and deep depression over Lapland. Latter system moving eastwards later, but some secondary disturbances appearing over Scandinavia and the United Kingdom, and gradients decreasing greatly.

Monday, 21st November, 1904.

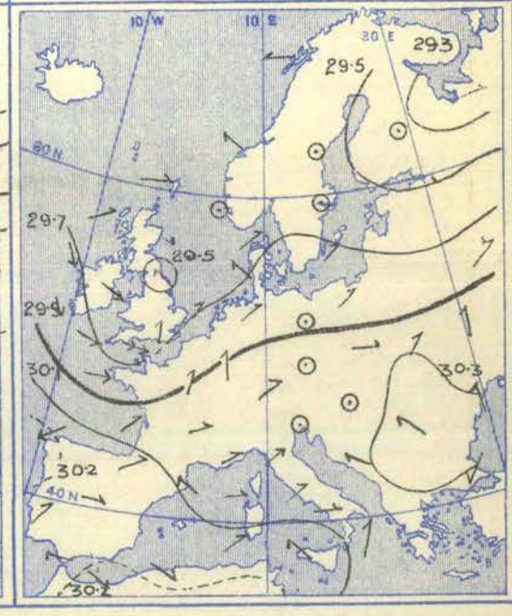
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair in several localities, but cloudy or overcast generally. Rainy on our most west and north-west coasts, at Bilbao and some stations in central Europe, and snow falling at Skudesnaes and Buda-Pesth. Considerable falls of rain, sleet, or snow occurring later over the United Kingdom, and heavy rain in some parts of France. Rain or snow also experienced in various other regions.

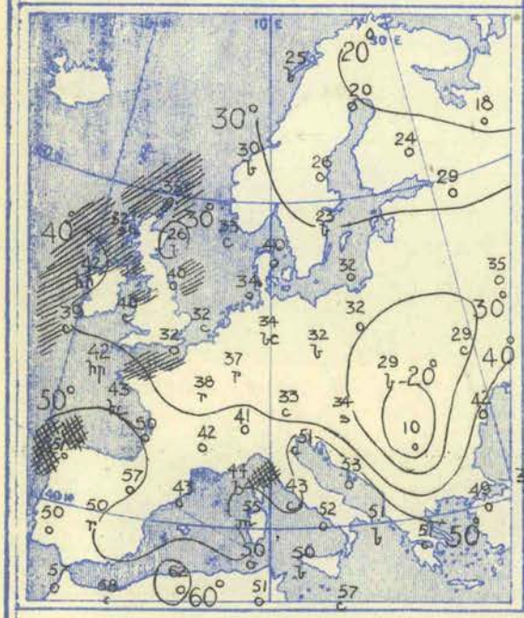
Temperature fallen except in some southern districts. Morning readings highest, 59° at Algiers, 58° at Barcelona, and 56° at Lisbon. Lowest, (1) 9° at Hermanstadt, (2) 21° at Uleaborg, 22° at Karlstad, (3) 25° at Wick, 27° at Nairn, (4) 37° at Rome. Remaining below 40° all day at some of our own northern stations and below 50° over the greater part of our area. Exceeding 60° at some extreme southern stations and touching 73° at San Fernando. Frost continuing all day at Hermanstadt and some northern stations, and succeeding night extremely cold in Scotland.

Wind at 8 a.m. showing some complete or partial cyclonic circulations, but mainly Westerly and moderate to strong in force. A considerable change taking place later; force decreasing and direction becoming more variable on the Continent, but a strong cyclonic movement setting in over the United Kingdom.

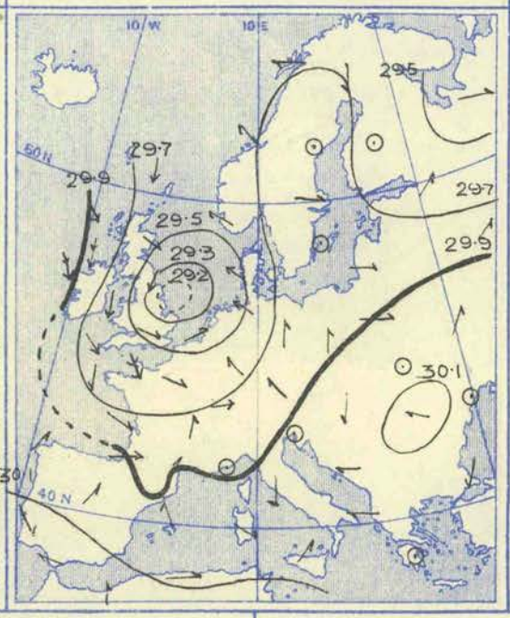
Barometer at 8 a.m. highest, 30·2 ins. to 30·3 ins. in the most southern parts of our area. Lowest, 29·1 ins. and less over the White Sea. Relatively low, 29·7 ins., in a depression off our north-west coasts, and below 30·0 ins. in another system over Corsica. North-western disturbance moving east-south-eastwards later and apparently growing deeper. Pressure decreasing over the southern countries and rising in the far north. Gradients becoming less steep except over our Islands and their vicinity.

Tuesday, 22nd November, 1904.

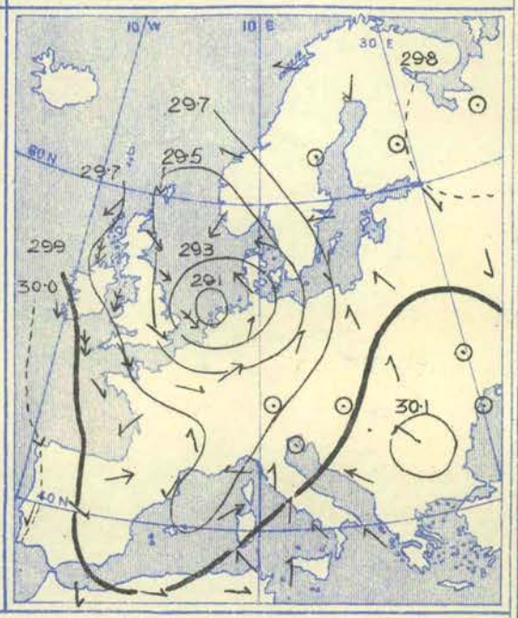
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. fine in a few places, but cloudy or overcast over our area generally, with squalls of sleet, snow, or hail over the United Kingdom and of rain in the north of France. Snow falling at Buda-Pesth and fog prevailing in other parts of central Europe. Large quantities of snow falling later in many parts of England and Scotland—as much as 2·04 ins. at Harrogate during the twenty-four hours ending at 6 p.m. Heavy rain at some French stations.

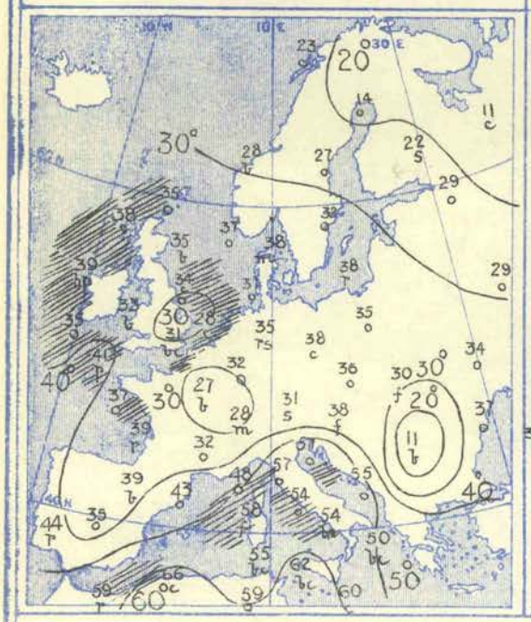
Temperature fallen in most regions. Morning values highest, 62° at Algiers, 59° at Lisbon, and 57° at Malta and Biarritz. Lowest, (1) 10° at Hermanstadt, (2) 18° to 25° at the most northern stations, (3) 26° at Aberdeen and about 32° at several other of our stations, (4) 43° at Rome. Rising subsequently to 75° at Algiers and to above 60° in some parts of southern Europe. Not touching 40° at several of our own stations, and continuing below 32° at Hermanstadt and in many parts of Scandinavia and Russia.

Wind at 8 a.m. circulating cyclonically around the North Sea. The Northerly current blowing a gale in many parts of these Islands, and the South-Easterly and Southerly currents strong; a fresh breeze to a moderate gale on the Continent. Little change as a whole later, but fresh North-West gales setting in on the east coast of England and fresh to strong South-Easterly gales in Denmark.

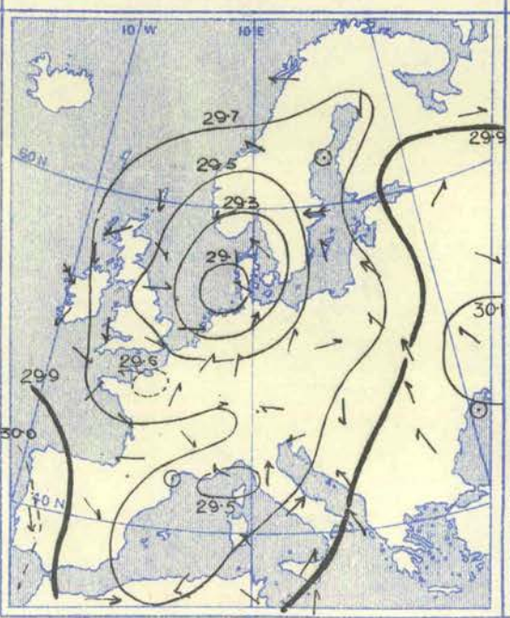
Barometer at a.m. ranging from above 30·1 ins. over Transylvania and Algeria to less than 29·5 ins. in the north of Russia, and to below 29·2 ins. in a deep depression centred over the North Sea. Disturbance moving slowly eastwards during day and increasing in depth. Some secondaries appearing over the United Kingdom. Gradients becoming less regular around the baric minimum, but increasing in most localities. Pressure giving way over Algeria, rising over northern Russia.

Wednesday, 23rd November, 1904.

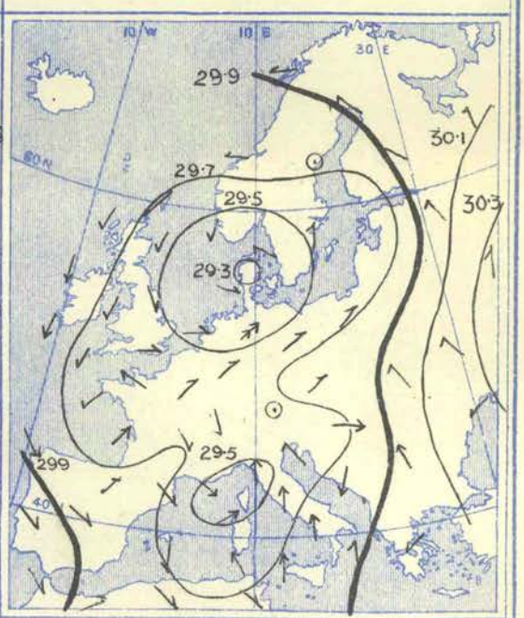
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. in a very rough and unsettled state generally, with squalls of snow, hail, or sleet over our Islands and their neighbourhood. Rainy at Wisby, Pesaro, Oran, and Corunna. A good deal of snow falling in many parts of our Islands later and in several northern localities, and heavy rain in Italy and Algeria. A thunderstorm, with hail, experienced at Scilly at night.

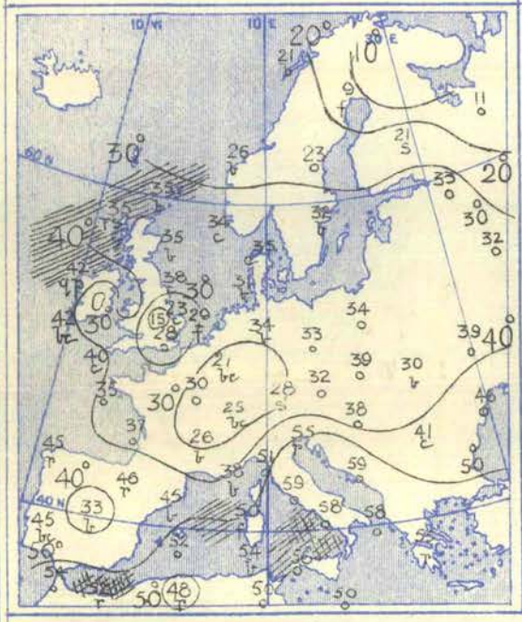
Temperature changed very irregularly; fallen in most places. Morning readings highest, 66° at Algiers, 60° at Malta, 59° at Pesaro. Lowest, (1) 11° at Hermanstadt, (2) between 11° and 23° in the extreme north of Europe, (3) 26° or 27° in the central parts of England and Ireland, (4) 25° at Limoges, 27° at Paris, 35° at Madrid. Rising later to 73° at La Calle and to 60° or above at some Italian stations. Remaining below 32° in the north of Europe and only exceeding it by a few degrees at some of our own stations. Succeeding night extremely cold over central England

Wind at 8 a.m. circulating cyclonically around the North Sea and also around the Gulf of Genoa. Northerly gales still prevailing on the Irish coasts and strong North to North-West breezes in many other parts of our Islands. Westerly current blowing a gale over the Netherlands and that from East a gale in Gothland. South-Westerly to South-Easterly winds strong over Corsica and Italy. Force of wind abating slowly over the United Kingdom, but increasing over southern Europe.

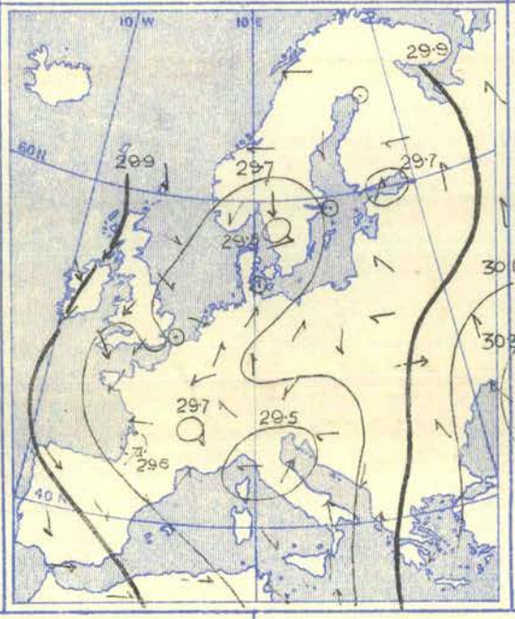
Barometer at 8 a.m. ranging from above 30·1 ins. over South and Little Russia and upwards of 30·0 ins. in Portugal, to 29·5 ins. and less in a depression over the Gulf of Genoa, and to below 29·1 ins. in another system over the southern portion of the North Sea. Below 29·6 ins. in a small disturbance over Normandy. The North Sea depression moving north-eastward and becoming less deep, but that over the Gulf of Genoa growing larger and deeper.

Thursday, 24th November, 1904.

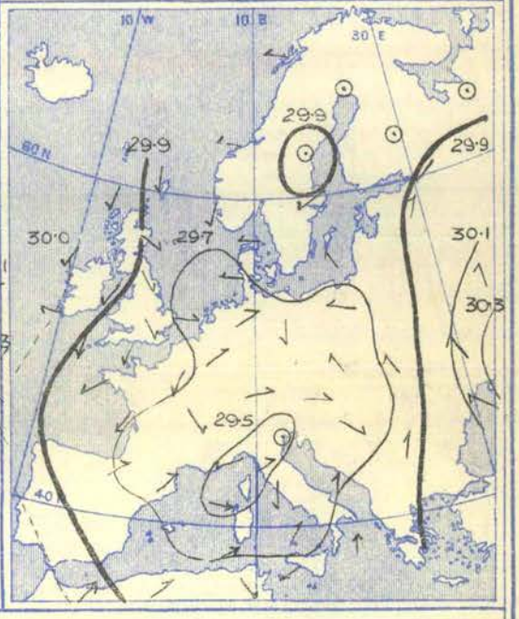
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m varying a good deal, but cloudy or overcast as a whole. Snow falling at Karlstad and Munich, hail or sleet showers on our extreme north-west coasts, and rain in several parts of southern Euorpe. Heavy rain later in Italy, Algeria, on the Austrian shores of the Adriatic, and very heavy rain and hail, accompanied by thunder and lightning, at Biarritz. Slighter falls of sleet or snow in several parts of the United Kingdom and northern Europe.

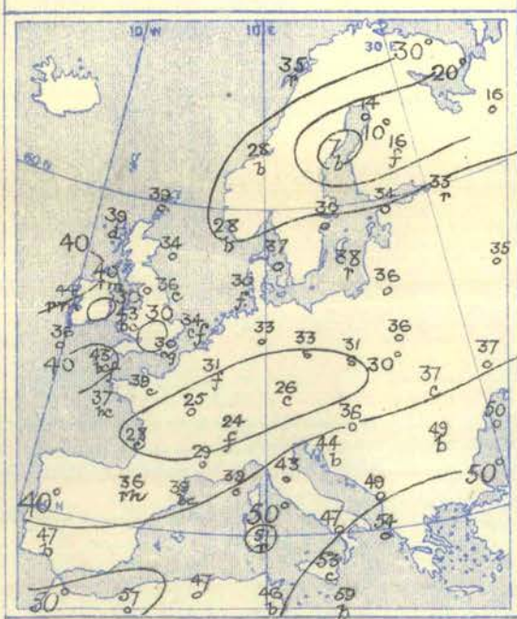
Temperature fallen in most regions. Morning readings highest, 63° at Malta and 59° at Rome and Lesina. Lowest, (1) 9° at Haparanda, 11° at Archangel, (2) 15° to 22° over the inland parts of England, (3) 25° to 31° over inland France, (4) 33° at Madrid. Frost continuing all day in the extreme north and at Brussels, and thermometer only just exceeding 32° at some of our own stations. Maxima above 60° at some Mediterranean stations, but below it on the Algerian coast.

Wind at 8 a.m. showing several complete or partial cyclonic circulations, and blowing with considerable force over the west of our Islands, the north-west of Spain, and over Italy. Little change later as a whole, but force decreasing in most places.

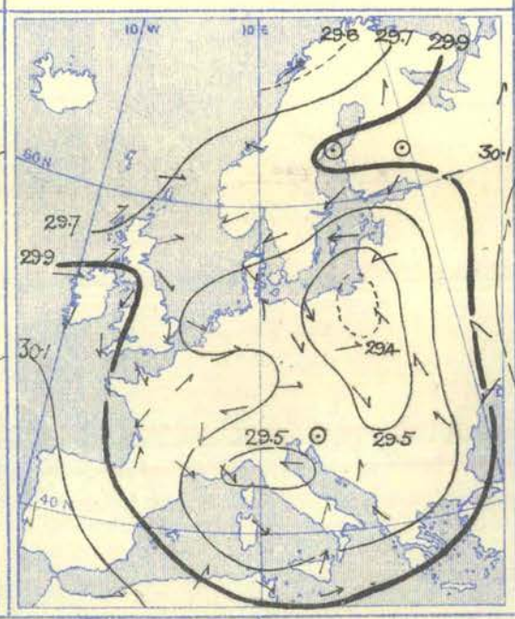
Barometer at 8 a.m. highest, 30·4 ins. and upwards over the south-east of Russia. Lowest, less than 29·5 ins. in a depression over the Gulf of Genoa and north of Italy and in a smaller centre over the Skager Rack. Nearly as low in other minima over the western half of Europe. Danish depression entirely disappearing by evening and barometer rising in most parts of northern Europe. Little change in the south.

Friday, 25th November, 1904.

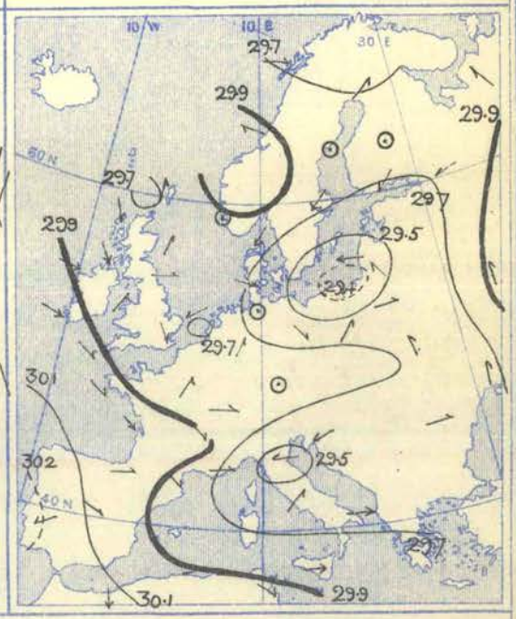
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. very unsettled in all parts of our area. Rain or snow falling in several of the more northern countries and rain in some southern regions. Snow reported from Aumale. Considerable precipitation in many districts during day both over our Islands and the Continent. A thunderstorm occurring in the south-west of France.

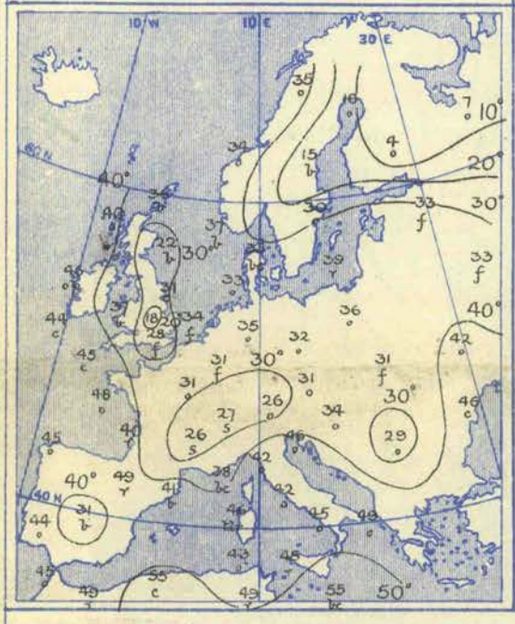
Temperature fallen generally; risen over our Islands. Morning readings highest, 59° at Malta, 57° at Oran, and 54° at Brindisi. Lowest, (1) 7° at Hernösand, and below 20° at several northern stations, (2) 23° at Le Mans, 24° at Belfort, and 25° at Paris, (3) 24° at Parsonstown and 26° at Oxford and Bath. Thermometer exceeding 40° during day on our north, west, and south-west coasts, rising above 50° in many southern parts of the Continent, and to 60° in a few places. Frost continuing all day in north and north-east.

Wind at 8 a.m. circulating cyclonically both over central and southern Europe, and blowing strongly in several places. Mainly Northerly over England and Ireland, but South-Westerly in Scotland and the north of Ireland. No general change later, but wind veering to the North-Westward in the West of Scotland and the north of Ireland.

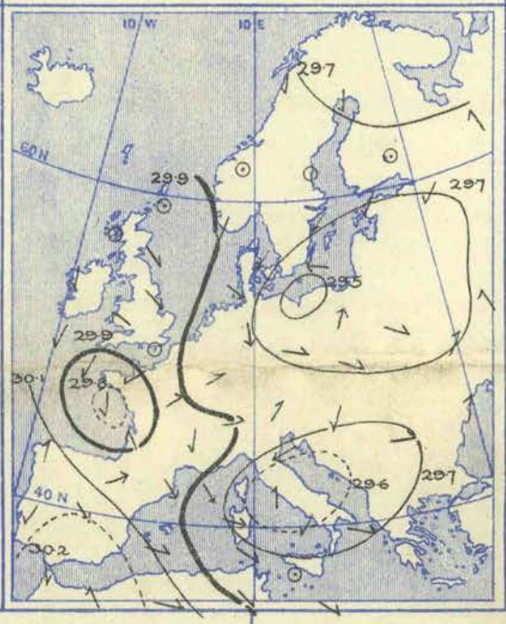
Barometer at 8 a.m. highest, 30·2 ins. and upwards over the south-east of Russia and only about a tenth of an inch lower over Portugal. Lowest, 29·4 ins. and less in a depression over Prussia, less than 29·5 ins. in another system over the Gulf of Genoa, and below 29·7 ins. in a third disturbance approaching our north-west coasts. Last-mentioned system travelling briskly southwards during the day and following night, and the other baric minima moving slowly eastwards or north-eastwards. Pressure becoming highest over Portugal.

Saturday, 26th November, 1904.

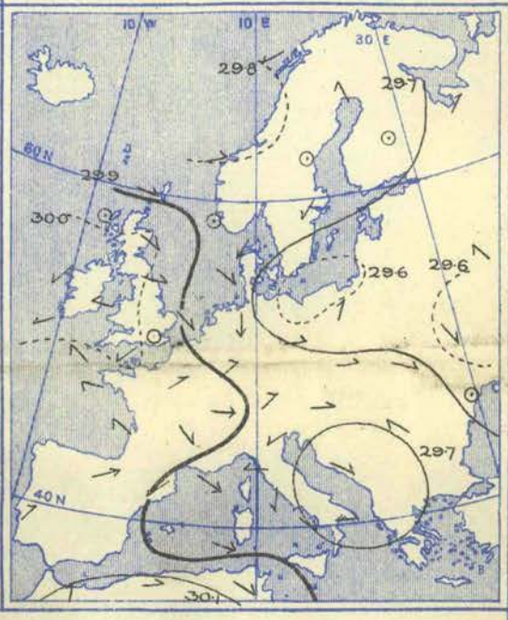
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. varying greatly in different localities. Cloudy or overcast in most regions, a thunderstorm reported at Sanguinaires, rain in the south-west of France and at some Mediterranean stations, and snow at Lyons, Belfort, and in some parts of northern Europe. Very heavy rain falling later in Italy and the south of France, and much snow at Knopio. Slight rain or snow over various parts of the United Kingdom and Germany.

Temperature fallen generally, but risen in Ireland and France. Morning readings highest, 55° at Malta and Algiers, 49° at Biarritz, 45° at Brest. Lowest, (1) 4° at Knopio, 7° at Archangel, 10° at Haparanda, (2) 18° over central England, 24° at Wick, 27° at Dungeness, (3) below 32° in most parts of France and central Europe, (4) 31° at Madrid. Remaining below 32° in some parts of central England, but rising to 40° at Scilly, to a few degrees above it in some extreme southern regions of Europe, and to 61° in Algeria.

Wind at 8 a.m. showing three considerable cyclonic circulations and blowing strongly in several places, both over southern and northern Europe. A general decrease in force taking place later, but little change in direction.

Barometer highest, 30·2 ins. and upwards over Morocco and the southern half of Spain. Lowest, 29·8 ins. and less, 29·6 ins. and less, and below 29·5 ins. respectively in depressions over Brittany, the north of Italy, and the Baltic. Gradients steepest over Denmark and the south-east of France. Not much change later in the general distribution of pressure, but some decrease taking place in the gradients.

IV.—GENERAL NOTES, etc.

No pronounced high pressure system was in existence in any part of the area under observation, but, after the commencement of the week, the barometer was generally highest either in the south-east or south-west of Europe, while some important depressions were shown both over the Mediterranean and Italy and over the countries further north. These disturbances caused much precipitation—snow or sleet except in the south—while the cyclonic circulation of the wind was often strong to a gale. Temperature was much lower than of late in many regions, and in several places, especially over the United Kingdom, very low for the time of year. Towards the end of the week it became low over southern Europe and Algeria.

Frost was reported from the extreme south coast of France, and temperatures of less than 50° from Algeria and Tunis. The heavy snow-fall in the northern parts of the United Kingdom was due to a depression which came over the northern districts from the north-westward during the earlier part of the week and subsequently moved slowly eastwards across the North Sea. As it disappeared from our coasts it increased in depth and a Northerly and North-Westerly gale sprang up in Ireland and most parts of Great Britain, accompanied by snow or hail.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 278.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	11·6	+ 4·1	24	+ 9	SHEFFIELD	13·6	—	24	—	WESTBOURNE	24·9†	+ 12·3	42†	+ 21
STRATHPEFFER SPA	9·4	+ 0·9	18	+ 2	WORKSOP	16·0	+ 6·6	29	+ 12	VENTNOR HOSPITAL	35·1	+ 16·7	51	+ 28
CRATHES	15·8	—	31	—	THURCASTON	11·2	+ 1·0	20	+ 2	BOURNEMOUTH	29·2	—	49	—
BALRUDDERY	20·5	—	39	—	MARGATE	23·0	+ 10·0	40	+ 17	MARLBOROUGH	28·3	+ 18·5	49	+ 32
EDINBURGH	13·8	+ 4·9	26	+ 9	BROADSTAIRS	19·0	—	33	—	SOUTHPORT	17·4	—	31	—
COCKLE PARK	19·9	—	37	—	RAMSGATE	18·3	—	32	—	RHYL	10·4	—	19	—
NEWCASTLE-on-TYNE	12·5	—	23	—	EASTBOURNE	26·8	+ 13·2	45	+ 22	ABERDOVEY	22·0†	—	39†	—
YORK	10·5	+ 2·8	19	+ 5	BRIGHTON	18·7	+ 4·5	32	+ 8	TENBY	22·7	+ 9·7	39	+ 17
SKEGNESS	18·7	—	33	—	WORTHING	18·5	—	31	—	TORQUAY	34·4	+ 20·8	58	+ 35
CROMER	11·3	—	20	—	BOGNOR	27·9†	—	47†	—	NEWQUAY	18·5	+ 2·9	31	+ 5
LOWESTOFT	12·5	—	22	—						GUERNSEY	24·6†	+ 11·9	41†	+ 20
DUNMOW	16·9	—	30	—										

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 34, page 200	Clacton-on-Sea	—	—	—	50·7	57·7	+ 2·2	110	—	—	—	—	—	—	—	—
" " "	Douglas	—	—	60·4	46·8	53·2	+ 3·2	78	—	5	0·78	−0·15	26·2	− 11·0	27	− 11
" " "	Stonyhurst	—	—	—	—	—	—	—	—	5	1·42	+0·25	—	—	—	—
" " "	Donaghadee	—	—	—	—	—	—	—	—	—	0·13	−0·01	—	—	—	—
" " 204	Skegness	—	—	—	—	—	—	—	—	—	—	—	37·7	—	39	—
" " "	Tenby	—	—	—	—	—	—	—	—	—	—	—	30·5	− 11·5	31	− 12

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TWENTY-SEVENTH YEAR. *Vol. XXI. (New Series.)* No. 48. FORTY-EIGHTH WEEK, ENDING SATURDAY, DECEMBER 3RD, 1904. *[Price 6d. Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS (See p. 284.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	50	24	44·7	35·7	40·2	1 above	8	− 5	24	+ 1	2049	+ 53	619	− 65
	1. SCOTLAND, EAST	52	16	44·4	34·7	39·5	1 above	7	− 7	27	− 2	2240	−107	743	− 13
	2. ENGLAND, N.E.	55	21	45·9	35·7	40·8	0 (average)	11	− 4	25	+ 3	2762	+189	542	− 50
	3. ENGLAND, EAST	53	22	44·2	35·0	39·6	2 below	6	−13	26	+ 1	3059	+ 77	508	−145
	4. MIDLAND COUNTIES	56	12	45·4	31·5	39·0	1 below	10	− 8	43	+16	2806	−112	645	− 40
	5. ENGLAND, SOUTH	54	14	49·2	34·0	40·1	2 below	20	− 6	23	+ 5	3149	−147	432	− 41
Principal Grazing Districts.	6. SCOTLAND, WEST	52	24	46·0	36·5	41·3	0 (average)	11	− 7	22	+ 4	2487	− 25	478	− 34
	7. ENGLAND, N.W.	55	18	49·4	36·0	41·2	1 below	21	+ 1	16	− 1	2724	− 42	459	− 13
	8. ENGLAND, S.W.	54	12	47·4	33·9	40·7	3 below	15	−14	32	+20	3105	+ 4	337	− 21
	9. IRELAND, NORTH	52	29	47·6	38·2	42·9	1 above	22	+ 1	11	− 6	2537	−125	390	− 50
	10. IRELAND SOUTH	57	22	48·9	35·5	42·3	2 below	29	0	18	+ 5	3024	− 26	288	− 35
	— CHANNEL ISLANDS	54	32	50·3	41·7	46·3	1 below	31	−12	1	− 2	3702	+ 41	89	− 42

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 284.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	13	1 more	232	+23	47·0	+ 2·7	6	− 1	12	− 1	1159	+ 58	27	+ 1
	1. SCOTLAND, EAST	5	2	4 less	184	+ 4	23·7	− 4·9	10	− 1	21	− 1	1251	− 29	30	− 1
	2. ENGLAND, N.E.	3	1	5 less	150	−16	19·3	− 3·9	9	− 4	17	− 7	1406	− 11	33	0
	3. ENGLAND, EAST	2	1	5 less	147	−20	18·2	− 4·3	11	− 2	20	− 4	1615	+ 36	39	+ 1
	4. MIDLAND COUNTIES	3	1	5 less	157	− 2	21·9	− 3·5	5	− 5	9	− 8	1354	+ 38	32	+ 1
	5. ENGLAND, SOUTH	3	2	5 less	160	+ 4	23·6	− 2·3	12	+ 1	21	+ 1	1590	+ 39	38	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	5	8	5 less	190	+ 5	44·3	− 1·3	8	+ 1	15	+ 2	1293	− 41	31	− 1
	7. ENGLAND, N.W.	5	5	3 less	177	+ 1	28·4*	− 3·6	5	− 4	9	− 7	1407	+127	33	+ 3
	8. ENGLAND, S.W.	4	4	6 less	178	0	34·1*	− 0·6	9	− 2	16	− 4	1504	− 89	36	− 2
	9. IRELAND, NORTH	6	4	4 less	232	+22	35·9	+ 2·5	12	+ 1	22	+ 2	1204	− 33	29	− 1
	10. IRELAND, SOUTH	5	5	6 less	200	+10	36·7	− 0·1	12	− 1	22	− 2	1388*	− 25	33	− 1
	— CHANNEL ISLANDS	5	4	5 less	209	+27	32·1	+ 2·3	16	+ 2	28	+ 3	1779	− 59	43	− 1

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather. Much cloud prevailed in almost all districts, and in the western and northern parts of the country slight falls of rain were not infrequent. Over the eastern, central, and southern counties of Great Britain, however, conditions were mostly dry.

Temperature was below the mean in most districts (owing to some very cold days early in the week) but above it in Scotland N. and E. and Ireland N., and just equal to it in England N.E. and Scotland W. The highest of the maxima were recorded generally either on December 1st or 3rd, and ranged from 57° in Ireland S. and 56° in the Midland Counties to 50° in Scotland N. The lowest of the minima, mostly registered on November 27th, ranged from 12° in the Midland Counties and England S.W. (at Hereford and Llangammarch Wells), 13° in England N.W. (at Newton Rigg), and 14° in England S. (at Swarraton), to 24° in Scotland N. and W., 29° in Ireland N., and to 32° in the Channel Islands.

Rainfall was extremely slight in the eastern half of Great Britain, and less than the mean in all parts of the Kingdom except Scotland N.

Bright Sunshine was deficient except in the Channel Islands, England S., Scotland W., and Ireland N. The percentage of the possible duration ranged from 28 in the Channel Islands and 22 in Ireland, to 9 in the Midland Counties and England N.W.

Barometer and Wind. During the earlier days of the period the barometer was highest over our western districts and the general current of wind North-Westerly, but after Tuesday the high pressure receded slowly southwards and our Islands became under the influence of depressions travelling eastwards to Norway. The wind consequently backed to West or South-West and increased in force, but as the disturbances were never very deep nothing beyond a fresh or strong breeze was reported.

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II.—DATA from which the SUMMARY on page 283 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	49	33	46·1	36·7	41·4	+ 0·4	11	21	7	1·43	+ 0·45	*	*	*	*
	Stornoway	50	35	46·4	38·0	42·2	+ 1·5	18	11	7	1·48	+ 0·22	5·2	- 2·2	11	- 5
	Wick	49	?24	44·7	34·6	39·7	- 0·3	8	28	5	0·53	- 0·16	*	*	*	*
	Lairg Ⓢ	48	24	43·8	33·3	38·6	+ 1·8	5	32	6	0·72	- 0·14	*	*	*	*
	Glencarron Ⓢ	49	33	43·5	36·4	40·0	+ 1·3	4	21	7	2·49	+ 0·14	*	*	*	*
	Fort Augustus Ⓢ	50	29	43·7	35·1	39·4	- 0·6	5	25	7	1·46	+ 0·34	5·1	+ 1·9	10	+ 4
1. SCOTLAND, E.	Nairn	51	24	45·9	35·0	40·5	+ 1·3	11	28	7	0·39	- 0·11	*	*	*	*
	Aberdeen	49	21	44·7	35·0	39·9	0·0	8	27	4	0·20	- 0·52	13·8	+ 3·3	28	+ 7
	Braemar Ⓢ	45	16	41·0	31·6	36·3	- 0·1	0	40	4	0·18	- 0·63	*	*	*	*
	Ochtertyre Ⓢ	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Leith	52	26	47·3	36·7	42·0	+ 0·8	15	15	4	0·10	- 0·35	*	*	*	*
	Marchmont Ⓢ	49	25	42·9	35·0	39·0	+ 0·5	3	25	5	0·31	- 0·43	5·3	- 4·2	11	- 9
2. ENGLAND, N.E.	Alnwick Castle	54	25	47·1	34·9	41·0	+ 0·6	14	28	4	0·20	- 0·53	*	*	*	*
	Durham	54	30	44·8	36·1	40·5	+ 0·9	8	23	2	0·04	- 0·56	4·8	- 5·9	9	- 12
	Shields	55	27	46·6	35·0	40·8	- 0·3	13	28	3	0·12	- 0·42	*	*	*	*
	Scarborough Ⓜ	53	33	46·5	37·9	42·2	+ 0·8	19	11	3	0·11	- 0·52	10·4	—	20	—
	Spurn Head	52	33	45·7	37·6	41·7	- 0·1	10	18	1	0·03	- 0·45	*	*	*	*
	Lincoln	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Fulbeck (Lincolnshire)	51	21	44·4	32·5	38·5	- 0·9	7	35	3	0·11	- 0·34	13·9	—	26	—
3. ENGLAND, E.	Hillington Ⓜ	50	25	42·7	34·8	38·8	- 1·2	2	26	4	0·06	- 0·51	9·9	- 1·1	18	- 2
	Yarmouth	50	29	43·7	36·0	39·9	- 1·4	5	23	3	0·10	- 0·51	*	*	*	*
	Geldeston	53	26	44·5	34·8	39·7	- 1·5	7	27	3	0·06	- 0·49	13·1	+ 0·5	24	+ 1
	Cambridge	50	24	43·9	33·7	38·8	- 1·6	5	30	2	0·05	- 0·37	6·9	- 4·8	13	- 9
	Felixstowe	51	28	44·9	36·5	40·7	- 1·0	8	21	0	0·00	—	18·3	—	33	—
	Clacton-on-Sea	50	28	43·9	35·1	39·5	- 2·1	5	25	1	0·01	—	13·8†	—	25†	—
	Rothamsted	50	22	44·9	32·7	38·8	- 1·5	8	35	3	0·20	- 0·40	8·2	- 3·5	15	- 6
	Shoeburyness	49	29	45·3	36·0	40·7	- 1·3	9	24	2	0·03	- 0·42	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	52	29	45·4	36·7	41·1	+ 1·4	10	21	4	0·05	- 0·63	7·6	—	14	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	52	18	45·3	31·0	38·2	- 2·2	9	41	3	0·06	- 0·38	6·7	—	12	—
	Colly Weston (Stamford)	51	24	44·9	32·7	38·8	- 1·2	8	35	4	0·10	- 0·43	*	*	*	*
	Cheadle Ⓜ	51	27	43·9	34·4	39·2	- 0·2	5	28	4	0·07	- 0·64	*	*	*	*
	Birmingham (Edgbaston)	52	25	44·3	36·2	40·3	- 0·4	6	22	2	0·05	- 0·49	1·1	—	2	—
	Shrewsbury	53	15	46·9	30·7	38·8	- 2·6	14	43	3	0·44	—	*	*	*	*
	Hereford Ⓜ	54	12	46·7	29·5	38·1	- 3·1	13	47	3	0·07	- 0·49	*	*	*	*
	Cirencester	56	18	46·4	30·4	38·4	- 1·7	12	44	3	0·14	- 0·53	7·3	- 3·7	13	- 7
	Oxford	51	?18	44·9	32·1	38·5	- 2·8	8	37	3	0·07	- 0·45	6·7	- 4·8	12	- 9
5. ENGLAND, S.	London	52	24	45·1	33·9	39·5	- 2·3	9	31	2	0·04	- 0·45	2·2‡	- 4·3‡	4‡	- 8‡
	Wisley (Surrey)	52	24	45·6	33·9	39·8	- 3·2	10	31	3	0·05	—	8·2	—	15	—
	Swarraton (Alresford) Ⓜ	51	14	45·6	28·7	37·2	- 3·1	10	49	4	0·14	- 0·56	*	*	*	*
	Tunbridge Wells Ⓜ	51	23	45·6	33·8	39·7	- 1·7	10	31	1	0·08	—	15·5	—	28	—
	Dungeness	52	24	45·9	34·4	40·2	- 3·1	11	30	2	0·24	- 0·30	7·1	—	13	—
	Hastings (St. Leonards)	50	27	46·5	36·2	41·4	- 1·8	13	24	3	0·26	- 0·46	16·3	+ 1·6	29	+ 3
	Southampton	54	24	47·2	35·3	41·3	- 1·7	15	27	3	0·21	- 0·52	8·0	- 4·5	14	- 8
	Portland Bill	53	32	50·1	38·9	44·5	+ 0·3	31	9	3	0·18	—	*	*	*	*
	Shaftesbury Ⓜ	50	19	44·4	31·0	37·7	- 2·1	7	40	5	0·15	- 0·62	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	52	30	46·8	38·7	42·8	+ 0·7	19	9	7	2·06	+ 0·01	*	*	*	*
	Glasgow	50	30	45·1	36·9	41·0	+ 0·6	9	20	5	0·30	- 0·62	3·8	- 1·0	8	- 2
	Cally Ⓢ	50	25	45·2	34·1	39·7	- 0·8	9	30	5	0·58	- 0·64	*	*	*	*
	Aspatria	50	24	44·4	35·8	40·1	- 0·8	7	23	4	0·68	—	5·5	—	11	—
	Douglas (Isle of Man)	51	31	48·7	37·0	42·9	- 0·4	27	14	6	0·48	- 0·59	14·1	+ 2·6	27	+ 5
7. ENGLAND, N.W.	Newton Rigg	50	13	42·8	32·3	37·6	- 1·5	2	35	4	0·30	—	3·8	—	7	—
	Stonyhurst	50	24	44·2	35·8	40·0	- 0·5	6	23	5	0·62	- 0·45	2·9	- 5·1	5	- 9
	Blackpool Ⓜ	50	22	45·5	35·0	40·3	- 1·4	10	27	7	0·36	- 0·39	5·4	- 2·4	10	- 4
	Manchester (Prestwich)	53	21	43·4	34·4	38·9	- 1·8	4	28	5	0·33	- 0·50	0·7	—	1	—
	Liverpool Obsy. (Bidston)	53	27	47·6	35·9	41·8	- 0·5	16	26	4	0·32	- 0·30	6·7	—	12	—
	Chester (Hawarden Bridge)	55	22	48·5	35·3	41·9	- 0·7	18	28	4	0·37	—	*	*	*	*
	Llandudno Ⓜ	53	30	48·7	38·9	43·8	- 0·5	26	9	6	0·98	+ 0·24	6·4	- 3·3	12	- 6
	Holyhead	53	35	49·6	41·6	45·6	+ 0·6	27	1	5	0·33	- 0·57	*	*	*	*
	Bettws-y-Coed	51	21	47·3	35·1	41·2	- 2·7	15	28	6	1·03	—	6·2	—	12	—
8. ENGLAND, S.W.	Llangammarch Wells	52	12	44·9	27·0	36·0	- 4·0	8	55	4	0·60	—	7·2	—	13	—
	Pembroke	53	33	49·9	41·4	45·7	+ 0·1	28	2	5	0·26	- 0·67	12·4	+ 0·2	22	0
	Cardiff	52	18	48·1	30·8	39·5	- 4·3	17	44	6	0·28	—	*	*	*	*
	Clifton	53	26	47·6	34·0	40·8	- 1·1	16	32	3	0·08	- 0·68	*	*	*	*
	Bath	54	21	47·9	32·1	40·0	- 2·2	17	39	2	0·04	- 0·64	2·2	—	4	—
	Arlington (N. Devon)	51	23	45·7	32·9	39·3	- 3·0	10	34	6	0·61	- 0·78	*	*	*	*
	Cullompton Ⓜ	53	22	46·6	29·5	38·1	- 3·5	13	47	3	0·06	- 0·79	4·7	- 5·8	8	- 10
	Falmouth	53	33	48·5	40·2	44·4	- 1·9	24	5	5	0·89	- 0·35	17·0	+ 2·5	30	+ 4
	Plymouth	53	26	47·5	36·8	42·2	- 2·6	23	15	6	0·34	- 0·55	5·5	- 7·5	10	- 13
9. IRELAND, N.	Malin Head	51	37	?48·7	41·4	45·1	+ 1·7	24	2	7	0·48	- 0·26	*	*	*	*
	Edenfel (Omagh)	50	29	45·1	34·0	39·6	0·0	9	31	6	0·33	- 0·51	*	*	*	*
	Blacksod Point	52	37	49·1	42·3	45·7	+ 1·3	26	0	7	0·70	- 0·60	*	*	*	*
	Markree Castle	52	34	48·2	37·1	42·7	+ 1·4	25	14	7	0·71	- 0·23	11·4	+ 0·9	22	+ 2
	Armagh	51	30	47·0	36·4	41·7	+ 1·1	14	23	5	0·18	- 0·49	12·1	+ 1·4	23	+ 3
	Donaghadee	51	34	47·7	37·9	42·8	0·0	23	11	6	0·23	- 0·47	*	*	*	*
10. IRELAND, S.	Dublin	55	30	48·7	38·4	43·6	+ 0·1	26	10	2	0·10	- 0·47	15·6	+ 1·3	29	+ 2
	Birr Castle	54	26	48·0	33·9	41·0	- 0·6	17	33	6	0·38	- 0·32	10·7	- 1·8	20	- 3
	Kilkenny	54	22	47·6	31·7	39·7	- 2·8	16	40	4	0·28	- 0·43	*	*	*	*
	Waterford	54	25	48·6	31·7	40·2	- 2·8	18	41	3	0·44	- 0·53	*	*	*	*
	Roche's Point	53	32	49·3	38·0	43·7	- 1·9	29	11	6	0·28	- 0·39	*	*	*	*
	Valencia	54	29	50·7	38·3	44·5	- 1·9	33	10	7	0·32	- 0·55	9·7	- 2·8	18	- 6
	Killarney	57	25	49·2	35·1	42·2	- 2·3	30	19	3	0·83	- 0·73	*	*	*	*
	Foynes	54	30	49·0	37·1	43·1	- 0·4	28	14	5	0·47	- 0·53	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	40	50·6	43·3	47·0	- 1·4	35	0	3	0·32	- 0·58	14·8	- 0·5	26	- 1
	Jersey	54	32	50·9	40·0	45·5	- 0·9	33	6	7	0·55	- 0·36	16·1	+ 0·5	28	+ 1

Information for Stations marked Ⓜ is supplied by the Royal Meteorological Society, and that for Stations marked Ⓢ is supplied by the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

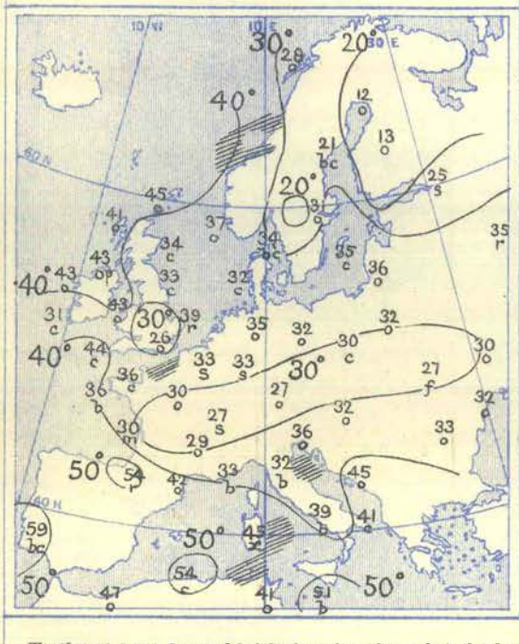
† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 33 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

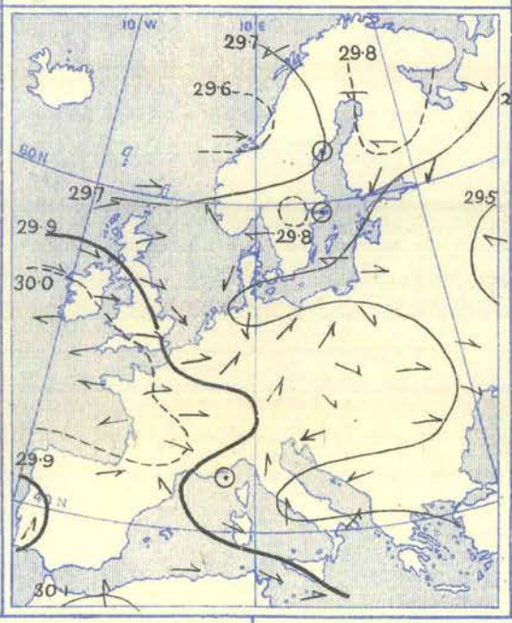
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 27th November, 1904.

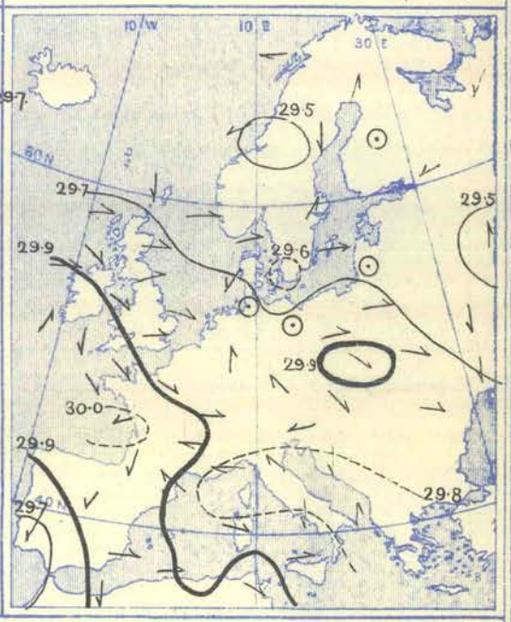
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in a few places, but cloudy or overcast as a whole. Rain falling at Christiansund, Moscow, and Yarmouth, and in some parts of southern Europe, and snow at Brussels, Frankfurt, and St. Petersburg. Slight amounts of rain or snow experienced later in many of the more northern regions, and heavy rain in Portugal, at Madrid, and on various shores of the Mediterranean.

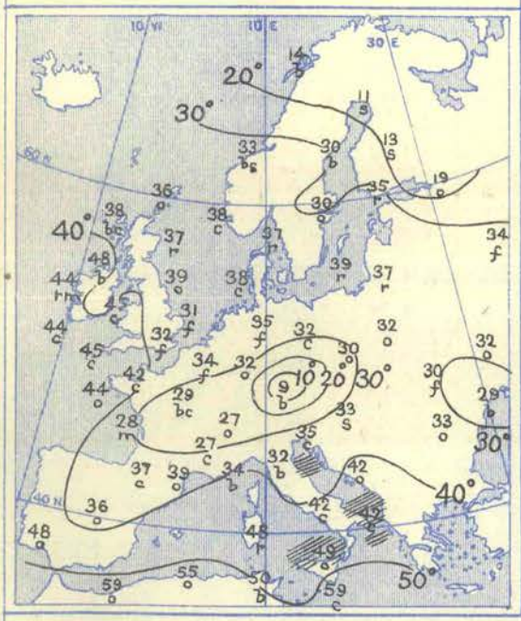
Temperature changed rather irregularly, but fallen in most regions excepting Great Britain and Scandinavia. Morning readings highest, 59° at Lisbon, 57° at Malta, and 54° at Algiers and Biarritz. Lowest, (1) 12° at Haparanda and Karlstad, (2) 22° to 24° over central England, 26° in London, and 31° at Valencia, (3) 24° to 32° over the central countries, (4) 32° at Florence, 39° at Rome and Naples. Only rising to between 35° and 37° in the inland parts of England, and remaining below 50° in most parts of Italy, but touching or slightly exceeding 61° in Algeria.

Wind at 8 a.m. light or moderate in force and rather variable in direction; mainly from some Westerly point, but Easterly in the extreme north. Changing a good deal in direction locally by evening, but no general modification taking place.

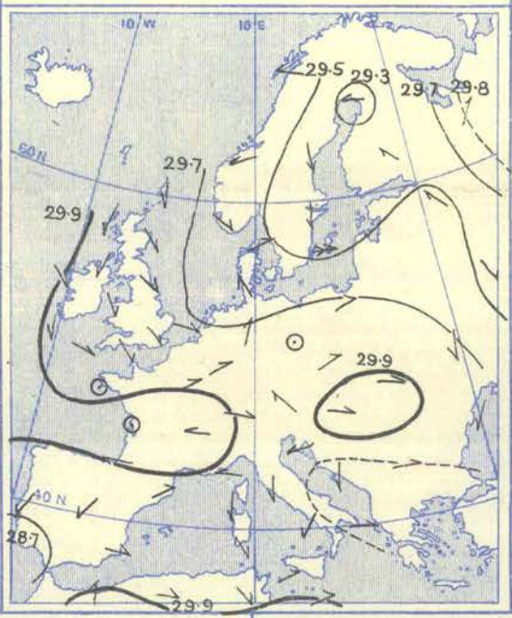
Barometer at 8 a.m. highest, 30·0 ins. and upwards over the south-western parts of the United Kingdom and a good part of France. Lowest, less than 29·5 ins. in a depression over central Russia. Relatively low in other disturbances over the north-west of Norway, Italy, and North Germany. Russian system moving westwards or becoming deeper during day, and that over Norway moving south-eastwards. Pressure giving way over the United Kingdom and the Spanish Peninsula.

Monday, 28th November, 1904.

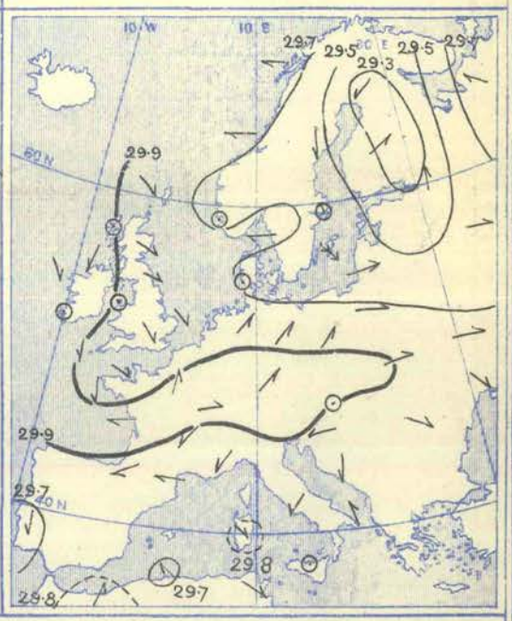
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine in a few localities, but cloudy or very dull as a whole, with fog in the centre and east of England, at Brussels, and in some parts of central Europe, rain at Blacksod Point and Aberdeen, snow at Buda-Pesth, and snow or rain at many stations in northern Europe. Rain or snow, in rather small quantities, experienced later in many northern regions, and slight rain at some Italian stations. Snow falling at Aumale during evening.

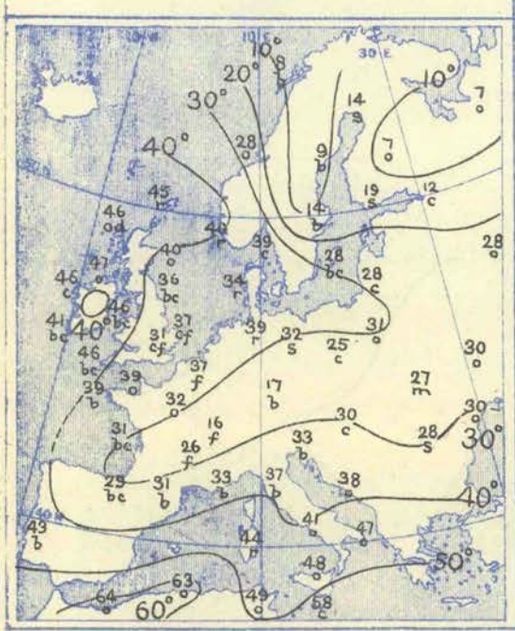
Temperature changed irregularly; risen over our Islands. Morning readings highest, 59° at Malta and Nemours, 48° at the coast of Portugal and at Malin Head. Lowest, (1) 9° at Munich, (2) 11° at Haparanda, 13° at Helsingfors and Kuopio, and 14° at Bodö, (3) 19° at Limoges, 25° at Turin, 32° at Florence, (4) 31° on our own south-east coasts. Rising later to above 60° on the southern shores of the Mediterranean, but not touching 50° in most parts of Italy and the south of France. Maxima below 40° in the south-east of England.

Wind at 8 a.m. showing several partial or complete cyclonic circulations; an anticyclonic movement prevailing over central Europe. A Westerly gale blowing at Wisby, but little force generally. No important change occurring later.

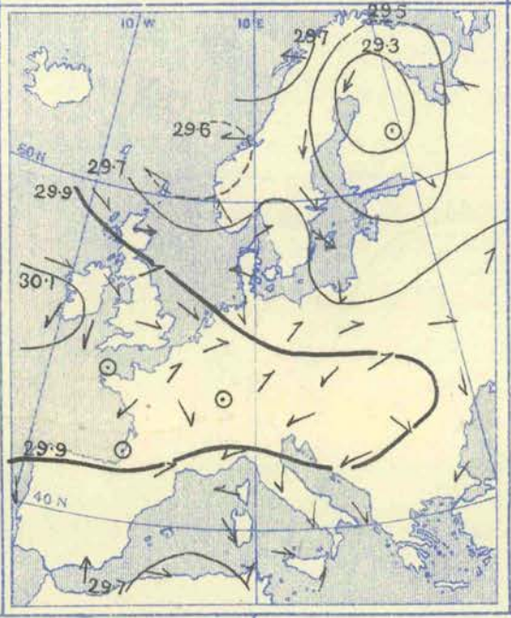
Barometer at 8 a.m. highest, 29·9 ins. and upwards over Austria and in an irregularly shaped area extending from the Atlantic to Switzerland. Lowest, less than 29·3 ins. in a depression over the extreme north of Sweden and Finland, and relatively low in other disturbances. Northern cyclonic system moving eastwards later and the two high pressure systems becoming amalgamated.

Tuesday, 29th November, 1904.

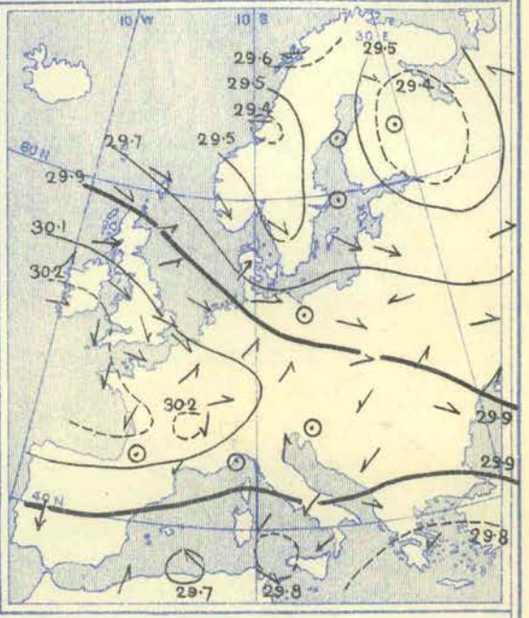
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. cloudy or overcast as a whole, but fair or fine in places. Rain falling on our extreme northern coasts, on the eastern shores of the North Sea, and at Cagliari, and snow at Hermanstadt and in various parts of northern Europe. Slight precipitation experienced later in many northern and north-western localities and also at Palermo and in Algeria.

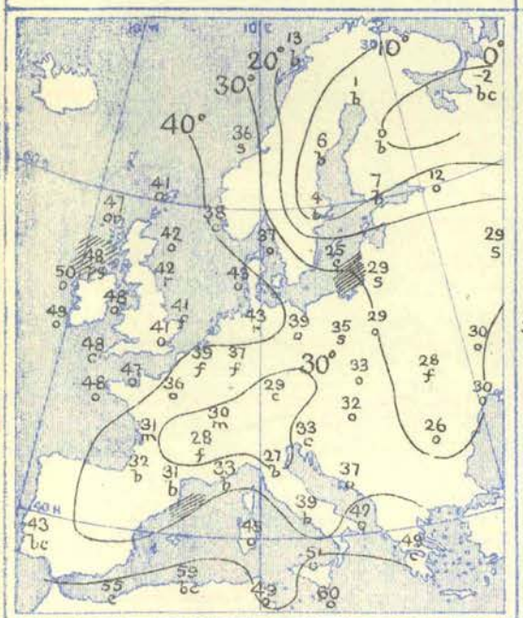
Temperature fallen in most places—quickly in Scandinavia. Morning readings highest, 63° at Algiers and 58° at Malta. Lowest, (1) between 7° and 14° over the northern parts of Russia and the major portion of Scandinavia, (2) 16° at Belfort, 17° at Munich, 29° at Biarritz, 33° at Nice, 35° at Leghorn and Rome, (3) 31° over central England. Frost continuing all day in the north and north-east of Europe and at some inland French stations, but thermometer rising to 50° at some of our own stations and in Brittany, to 57° at Palermo and Athens, 64° at Malta, and to above 70° in Algeria.

Wind at 8 a.m. showing two cyclonic circulations over the northern part of our area. Strong Northerly winds or gales prevailing over the Gulf of Bothnia and the Baltic. Force subsiding by evening but no general change taking place in direction. A slight backing reported from the north-west of Ireland.

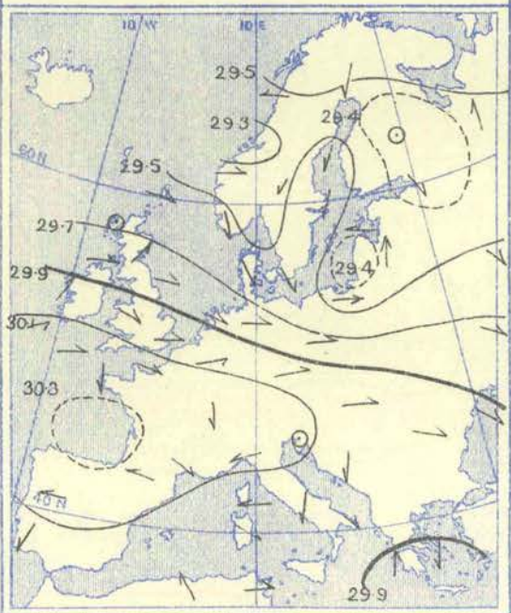
Barometer in morning highest, 30·1 ins. to 29·9 ins. in an elongated high pressure extending from off our west coasts to Roumania. Lowest, less than 29·3 ins. in a depression over the north of Finland. Below 29·6 ins. in another disturbance off the west of Norway, and below 29·7 ins. over Algeria. Northern depressions travelling eastwards during day and barometer rising over north-western Europe generally, but a fall setting in on our north-west coasts late in the evening.

Wednesday, 30th November, 1904.

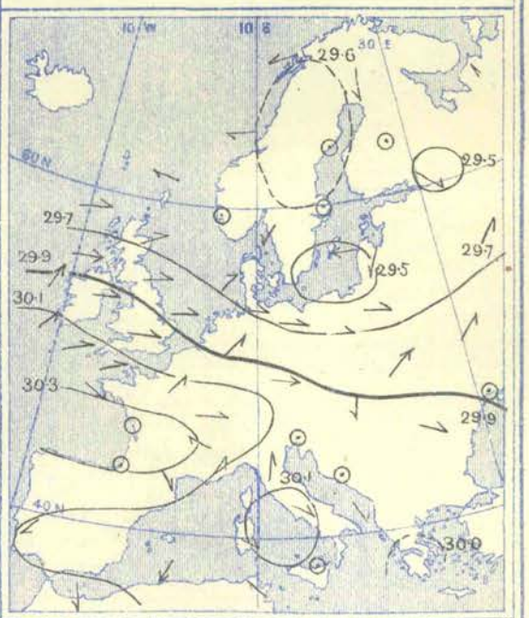
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. fine and bright at some stations both in the north and south, but cloudy or overcast generally. Rain falling at some of our own northern stations and in North Germany, and snow at Christiansund, Karlstad, Memel, and Moscow. Rain or snow also falling at a few places in the centre of Europe. Rain or snow, mostly in slight amounts, experienced later in most regions.

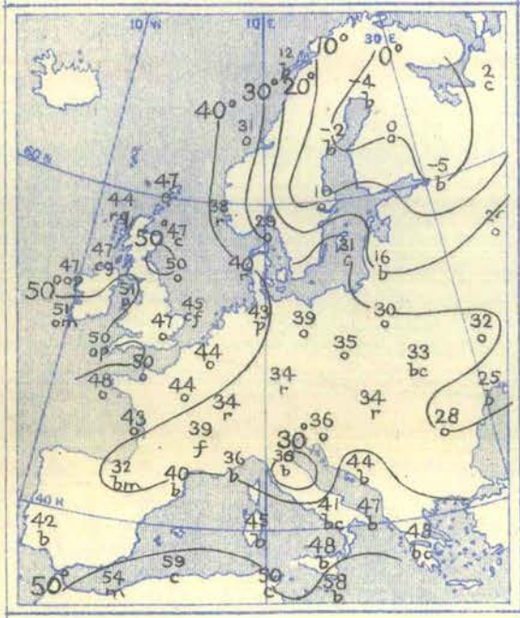
Temperature fallen in Sweden, Finland, the greater part of Russia, and in Italy and Algeria, risen elsewhere. Morning readings highest, 60° at Malta, 59° at Algiers, and 50° at Blacksod Point and Pembroke. Lowest, (1) −2° at Archangel, +1° at Haparanda, 4° at Stockholm, and below 32° over the north and east of Europe generally, (2) 24° at Turin, 27° at Florence, 30° at Rome, 31° at Rochefort, 32° at Biarritz. Rising later to above 50° in most parts of our Islands and at some stations in the extreme south of Europe, and to above 60° in Algeria. Frost continuing all day in the north and east, as well as at Lyons.

Wind at 8 a.m. cyclonic generally, but anticyclonic over the south-western portion of our area Not strong in force as a whole, but blowing a moderate Westerly gale at Malin Head and a fresh or strong breeze in a few other regions. Scarcely any change later.

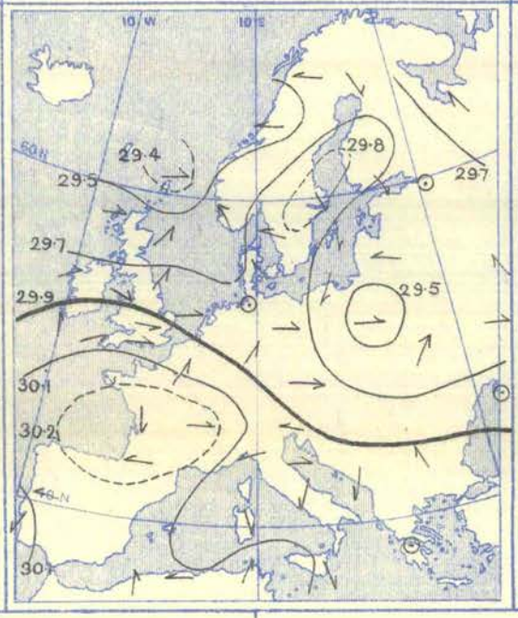
Barometer at 8 a.m. ranging from about 30·3 ins. in an anticyclone centred over the Bay of Biscay to below 29·4 ins. in two minima in the north-east of our area, and to less than 29·3 ins. in a disturbance near Christiansund. High pressure area spreading eastwards during day and cyclonic systems becoming less deep and much modified in form.

Thursday, 1st December, 1904.

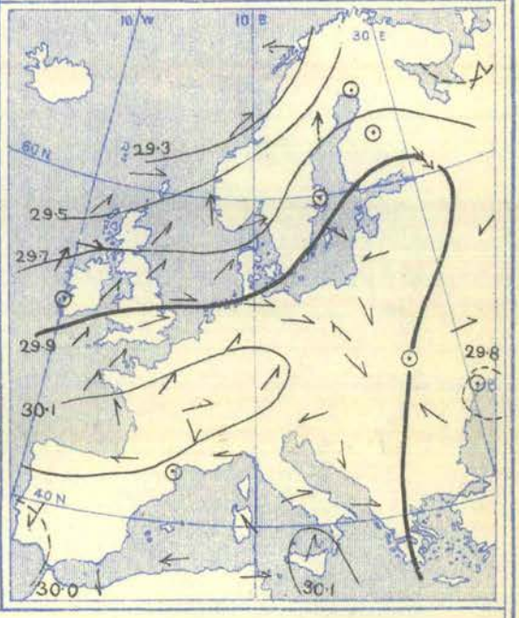
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in most parts of Italy and the south of France, but cloudy or overcast over our area generally. Snow and rain prevailing in some parts of central Europe, and rain in Jutland and on our most north-western and western coasts. Rain falling later at Palma and at several Austrian stations, and rain or snow in many parts of northern Europe.

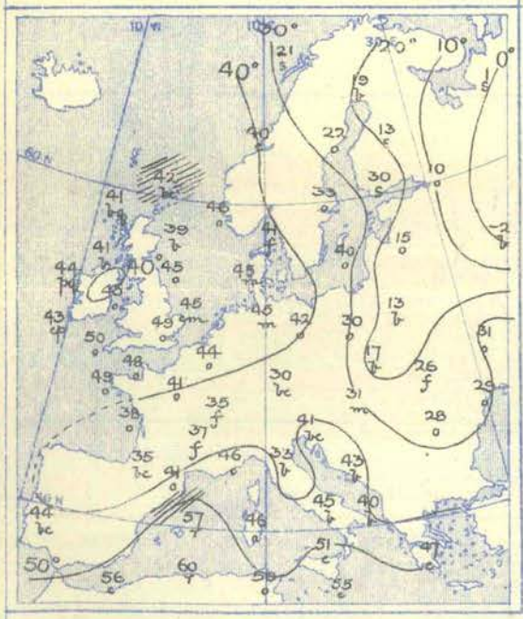
Temperature fallen over Scandinavia and its neighbourhood, risen in most other regions. Morning readings highest, 59° at Algiers, 58° at Malta, about 50° at several of our own stations. Lowest (1) −5° at St. Petersburg, −4° at Haparanda, and much below 32° in the north and north-east generally, (2) 29° at Rome, 30° at Florence and Pesaro, (3) 32° at Biarritz. Rising during day to above 50° in most parts of our Islands and the Riviera, to 66° at Algiers and to 72° at La Calle. Very severe frost continuing in the extreme north and north-east.

Wind at 8 a.m. varying greatly in direction but moderate in force. Mainly Westerly over our Islands and the central countries. Increasing to a moderate gale later from South or South-West on the west coast of Norway, and to a strong breeze from East at Bodö.

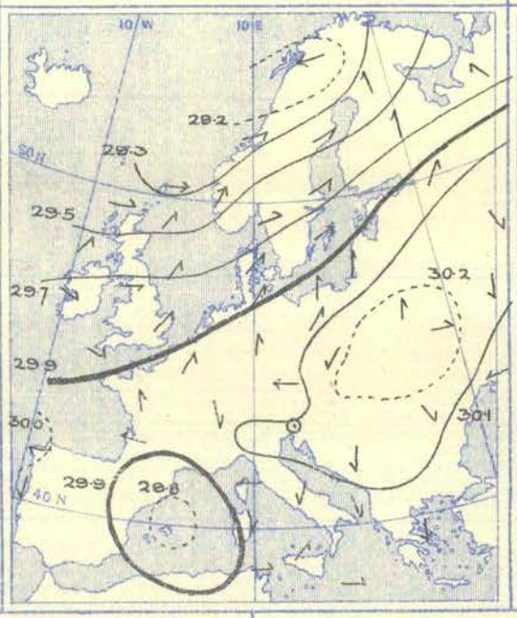
Barometer at 8 a.m. highest, 30·2 ins. in an anticyclone over the Bay of Biscay and a good part of France. Lowest, 29·4 ins. and less in a depression centred near the Shetlands, and nearly as low in another minimum over Poland. Latter system disappearing by evening, but that in the north travelling north-eastwards towards the Norwegian coast.

Friday, 2nd December, 1904.

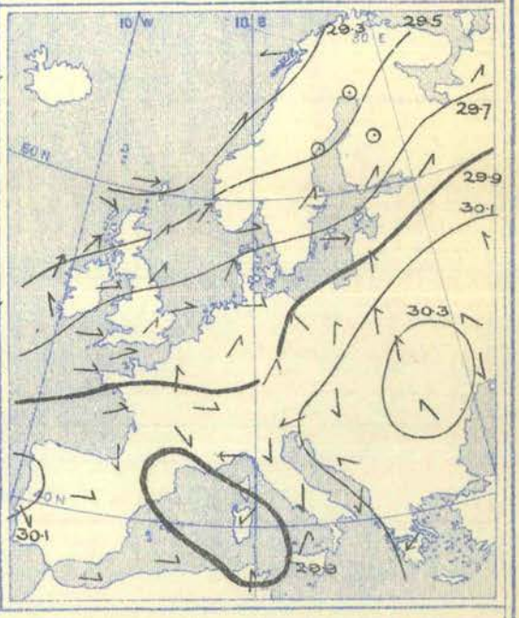
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. dull generally over the northern countries of the Continent, with snow in Finland, the north of Russia, and at Bodö. Fair at most of our own stations, but showery in the west and south-west. Fine in some of the more southern countries, but rainy over the western part of the Mediterranean. Slight rain experienced later in many British and Irish localities and in Italy, and heavy amounts in the south of France.

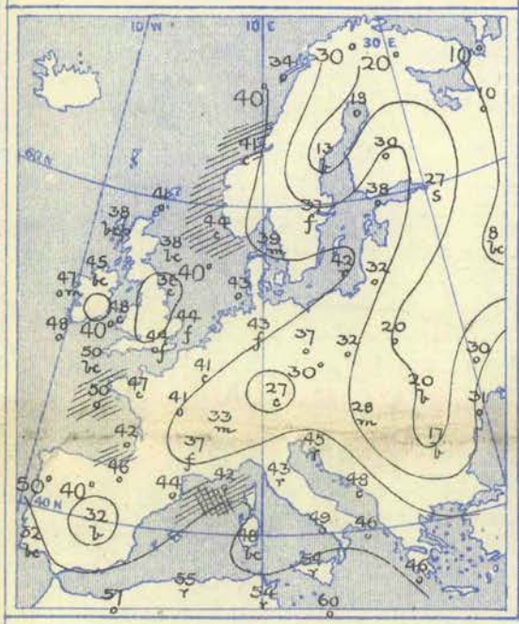
Temperature risen quickly in Scandinavia, fallen in most other regions. Morning readings highest, 60° at Algiers, 57° at Palma, 55° at Malta. Lowest, (1) −2° at Moscow, +1° at Archangel, 10° at St. Petersburg, and much below the freezing point in Poland, the north of Scandinavia, and at most other Russian stations, (2) 30° at Limoges, 32° at Turin, 33° at Florence and Pesaro, and 36° at Rome, (3) 38° at Oporto. Rising later to 68° at Algiers, to a little above 50° in some parts of France, Italy, and the United Kingdom. Frosty all day in Russia, Poland, and the north of Scandinavia.

Wind at 8 a.m. South-Westerly over all the more northern regions except Bodö, moderate generally, but fresh or strong in places. An anticyclonic circulation shown over the central parts of our area, and a cyclonic movement between Spain and Sardinia. No general change later, but Easterly wind increasing in the south of France.

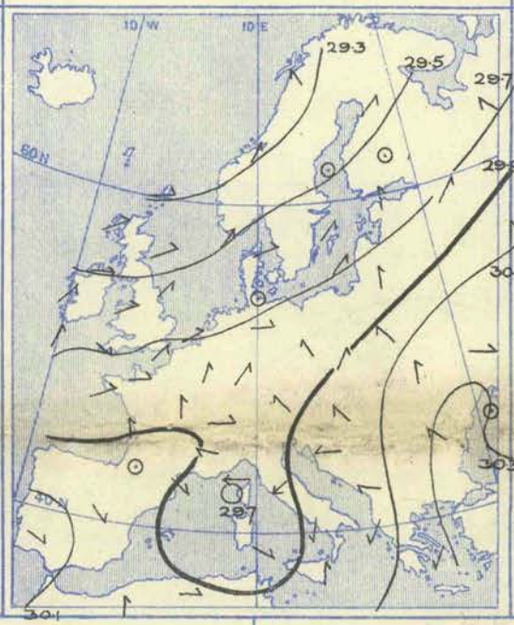
Barometer in morning ranging from above 30·2 ins. in a high pressure area over Hungary to below 29·8 ins. in a depression centred near Palma, and to below 29·2 ins. in another system in the north of Norway. A renewed fall of the barometer setting in later along our western coasts, but change not very decided, and no great modification taking place in the general distribution of pressure.

Saturday, 3rd December, 1904.

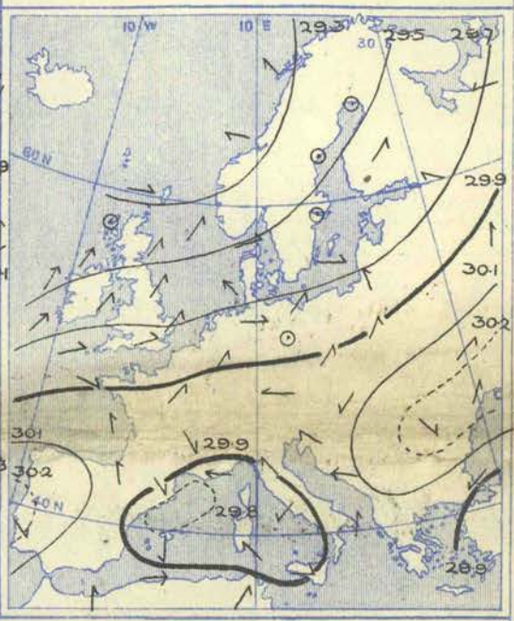
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather at 8 a.m. varying greatly; fine and bright in a few places, cloudy or overcast as a whole, foggy in the centre and east of England, rainy in parts of southern Europe and in Gothland, and snow falling at St. Petersburg. Slight rain experienced in many regions later, and heavy amounts at Trieste and some Italian stations.

Temperature changed irregularly. Morning readings highest, 60° at Malta, 55° at Algiers, 54° at Palermo. Lowest, (1) 8° at Moscow, 10° at Archangel, 13° at Hernösand, (2) 17° at Hermanstadt, (3) 32° at Madrid, (4) 35° at Nairn, 36° at Shields and Spurn Head. Rising to 50° or above at nearly all our own stations during day, as well as in Italy and the west and south of France, to 66° at Malta, to 70° at La Calle, and to 75° at Sfax.

Wind at 8 a.m. showing a complete cyclonic circulation over the western part of the Mediterranean, the Easterly current blowing strongly on the south coast of France. Westerly to South-Westerly winds prevailing in almost all other regions, and blowing a fresh gale at Skudesnaes. Little change, as a whole by evening, but gale at Skudesnaes subsiding.

Barometer at 8 a.m. ranging from above 30·3 ins. over south-eastern Europe, and above 30·1 ins. in Portugal to below 29·7 ins. in a minimum near Cape Sicié, and to below 29·3 ins. in a large depression off the west of Norway. No general change occurring later; a decrease of pressure going on along the Atlantic seaboard of the United Kingdom.

IV.—GENERAL NOTES, etc.

During the greater part of the week pressure was highest in the south-western part of our area, an anticyclonic band usually extending from the Bay of Biscay towards central Europe. Nearly all the depressions were found in various parts of the more northern regions, but there were also some shallow, and often ill-defined, disturbances shown over the Mediterranean. Very few of the baric minima were of any great depth and the winds were consequently mostly moderate or light in force. Slight gales were, however, experienced in some parts of Scandinavia. Towards the end of the week pressure gave way in the south-west and became highest in the south-east of Europe, the distribution thus becoming more favourable for the north-eastward passage of depressions from the Atlantic. Temperature was low everywhere at the commencement of the week, but subsequently rose gradually over our Islands and their vicinity. Severe frost continued throughout the week in some northern and eastern regions of Europe and sharp night frosts were rather frequent in Italy and the south of France. Precipitation was only general in the most northern and north-western localities, but rain fell at times in some southern districts. Very few reports were received from Spain, but according to the newspapers very heavy falls of snow occurred in that country.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 284.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	6·3	− 0·8	14	− 2	SHEFFIELD	2·6	—	5	—	WESTBOURNE	16·2†	+ 3·6	28†	+ 6
STRATHPEFFER SPA	6·6	− 1·6	14	− 3	WORKSOP	6·0	− 2·6	11	− 5	VENTNOR HOSPITAL	21·5	+ 8·6	38	+ 15
CRATHES	13·5	—	28	—	THURCASTON	1·9	− 7·4	3	− 14	BOURNEMOUTH	19·6	—	34	—
BALRUDDERY	12·1	—	25	—	MARGATE	7·4	− 4·9	13	− 9	MARLBOROUGH	11·4	+ 1·7	20	+ 3
EDINBURGH	6·3	− 1·3	13	− 3	BROADSTAIRS	7·2	—	13	—	SOUTHPORT	3·2	—	6	—
COCKLE PARK	5·3	—	10	—	RAMSGATE	5·9	—	11	—	RHYL	8·5	—	16	—
NEWCASTLE-on-TYNE	3·5	—	7	—	EASTBOURNE	20·4	+ 7·0	36	+ 12	ABERDOVEY	7·8†	—	14†	—
YORK	5·9	− 1·3	11	− 3	BRIGHTON	16·5	+ 3·0	29	+ 5	TENBY	14·3	+ 2·1	26	+ 4
SKEGNESS	13·1	—	24	—	WORTHING	17·9	—	31	—	TORQUAY	11·6	− 1·6	20	− 3
CROMER	13·2	—	24	—	BOGNOR	21 7†	—	38†	—	NEWQUAY	14·1	− 0·3	25	− 1
LOWESTOFT	12·0	—	22	—						GUERNSEY	17·3†	+ 5·2	30†	+ 9
DUNMOW	11·2	—	20	—										

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 35, page 206	Spurn Head	—	—	66·9	—	61·3	+ 3·4	135	—	—	—	—	—	—	—	—
" " "	Holyhead	—	—	—	54·7	59·5	+ 1·6	123	—	—	—	—	—	—	—	—
No. 36, page 212	Tunbridge Wells	—	42	64·0	48·3	55·8	− 3·1	97	—	—	—	—	—	—	—	—
" " "	Dungeness	—	—	—	50·6	57·9	− 1·0	111	—	—	—	—	—	—	—	—
" " "	Blacksod Point	—	—	59·6	—	54·3	− 2·0	85	—	—	—	—	—	—	—	—
No. 37, page 218	Tunbridge Wells	—	—	64·6	47·7	55·7	− 2·4	96	—	—	—	—	—	—	—	—

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; W. N. SHAW, F.R.S., SECRETARY.

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TWENTY-SEVENTH YEAR. *Vol. XXI. (New Series.)* No. 49. FORTY-NINTH WEEK, ENDING SATURDAY, DECEMBER 10TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 290.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	53	10	39·6	29·9	34·9	4 below	0	−11	50	+24	2049	+ 42	669	− 41
	1. SCOTLAND, EAST	57	18	39·9	30·3	35·4	3 below	0	−11	46	+13	2240	−118	789	0
	2. ENGLAND, N.E.	59	22	45·1	34·0	39·7	0 (average)	9	− 3	31	+ 4	2770*	+185	574*	− 45
	3. ENGLAND, EAST	55	22	45·9	36·0	41·1	1 above	11	− 4	25	− 5	3070	+ 73	533	−150
	4. MIDLAND COUNTIES	57	21	43·9	34·1	39·2	0 (average)	5	−10	30	− 1	2811	−122	675	− 41
	5. ENGLAND, SOUTH	55	23	47·4	38·6	43·2	2 above	23	+ 3	10	−11	3172	−144	442	− 52
Principal Grazing Districts.	6. SCOTLAND, WEST	55	21	42·5	34·0	38·4	3 below	1	−15	29	+ 9	2488	− 40	507	− 25
	7. ENGLAND, N.W.	60	12	44·6	35·5	40·2	1 below	7	−10	26	+ 6	2731	− 52	485	− 7
	8. ENGLAND, S.W.	56	25	48·1	38·7	43·6	1 above	25	0	9	− 5	3130	+ 4	346	− 23
	9. IRELAND, NORTH	56	25	43·6	35·2	39·6	2 below	4	−14	26	+ 7	2541	−139	416	− 43
	10. IRELAND SOUTH	59	24	48·4	34·2	42·1	1 below	33	+ 6	22	+ 7	3057	− 20	310	− 23
	— CHANNEL ISLANDS	56	34	52·3	45·1	48·8	2 above	48	+ 9	0	− 4	3750	+ 50	89	− 46

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 290.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	16	4 more	238	+24	48·6	+ 3·1	6	0	13	0	1165	+ 58	27	+ 1
	1. SCOTLAND, EAST	5	9	3 more	189	+ 5	24·6	− 4·7	10	+ 1	21	+ 1	1261	− 29	30	− 1
	2. ENGLAND, N.E.	5	8	2 more	155	−15	20·1	− 3·6	12	+ 6	23	+11	1418	− 6	33	0
	3. ENGLAND, EAST	6	11	6 more	153	−18	19·3	− 3·7	6	− 4	12	− 7	1621	+ 32	38	+ 1
	4. MIDLAND COUNTIES	6	9	3 more	163	+ 1	22·8	− 3·2	9	0	17	0	1863	+ 38	32	+ 1
	5. ENGLAND, SOUTH	7	19	13 more	167	+ 7	25·5	− 1·1	6	− 4	11	− 7	1596	+ 36	38	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	5	11	2 less	195	+ 5	45·4	− 1·6	12	+ 7	24	+13	1305	− 34	31	− 1
	7. ENGLAND, N.W.	6	12	4 more	133	+ 3	29·3	− 3·3	11	+ 3	20	+11	1418	+132	33	+ 3
	8. ENGLAND, S.W.	7	20	11 more	185	+ 3	36·1	+ 0·4	13	+ 3	24	+ 6	1517	− 86	36	− 2
	9. IRELAND, NORTH	6	10	1 more	238	+23	36·9	+ 2·7	20	+10	38	+20	1224	− 22	29	− 1
	10. IRELAND, SOUTH	6	11	0 (average)	206	+12	37·8	− 0·1	21	+ 9	40	+18	1409	− 15	33	0
	— CHANNEL ISLANDS	7	25	16 more	216	+29	34·6	+ 3·9	15	+ 2	28	+ 3	1794	− 58	42	− 1

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this period was rough and extremely unsettled. Scarcely a day passed without rain in the southern districts, while in the north there were frequent falls of rain, hail, sleet, or snow. Thunder and lightning (or thunder only) occurred at Hereford, Shaftesbury, Hastings, Newquay, and Llangammarch Wells in the first half of the week, and lightning in various other parts of England and Wales on or about Wednesday.

Temperature fluctuated greatly. The average for the week was 3° or 4° below the mean in Scotland, and slightly below it in England N.W. and over Ireland. In other parts of the Kingdom it was either above the mean or just equal to it. The highest of the maxima were registered on Sunday, and ranged from 60° in England N.W. and 59° in England N.E. and Ireland S., to 53° in Scotland N. The lowest of the minima were mostly recorded on the 9th or 10th, when the thermometer fell to 10° in Scotland N., to 18° in Scotland E., and to 12° in England N.W., while elsewhere the lowest values ranged from 21° in the Midland Counties and Scotland W., to 25° in England S.W. and Ireland N., and to 34° in the Channel Islands.

Rainfall was more than the mean except in Scotland W., the excess being greatest in England S. and S.W. and the Channel Islands. In England S. the fall was more than three times the mean amount.

Bright Sunshine exceeded the mean in most districts, but was only just equal to it in Scotland N. and the Midland Counties, and deficient in England S. and E. The percentage of the possible amount ranged from 40 and 38 in Ireland S. and N. respectively to 23 in England N.E., 13 in Scotland N., 12 in England E., and to 11 in England S.

Barometer and Wind. Many depressions, some of them very large and deep, passed in a general easterly or north-easterly direction either directly over the Kingdom or not far to the northward. Strong winds or gales were consequently very frequent and blew from various quarters. The most severe and general gale attended a disturbance, whose centre passsed over the Shetlands on Monday. On Wednesday a depression centred over Brittany and the English Channel drew the wind into the Northward or North-Eastward on our southern coasts, and on Saturday, when a complex low pressure system moved across England, a Northerly current became general.

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II.—DATA from which the SUMMARY on page 289 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	48	26	38·9	32·7	35·9	- 4·5	0	43	6	1·03	+ 0·03	*	*	*	*
	Stornoway	51	25	39·9	32·3	36·3	- 4·0	0	40	7	2·91	+ 1·64	8·5	+ 1·9	19	+ 4
	Wick	53	22	41·0	31·1	36·3	- 2·9	0	40	7	1·06	+ 0·34	*	*	*	*
	Lairg 𝔖	45	10	36·5	25·5	31·2	- 5·3	0	76	?5	0·67	- 0·21	*	*	*	*
	Glencarron 𝔖	53	16	40·2	28·6	34·6	- 3·4	0	52	?5	2·51	+ 0·24	*	*	*	*
	Fort Augustus 𝔖	53	21	40·9	28·9	35·1	- 4·2	0	48	4	1·41	+ 0·25	3·3	+ 0·8	7	+ 2
1. SCOTLAND, E.	Nairn	52	20	38·4	29·4	34·1	- 5·4	0	55	6	1·03	+ 0·53	*	*	*	*
	Aberdeen	52	22	39·1	31·3	35·4	- 3·7	0	46	5	1·04	+ 0·30	9·7	+ 0·1	21	0
	Braemar 𝔖	51	18	38·5	25·3	32·2	- 3·5	0	69	3	0·68	- 0·09	*	*	*	*
	Ochtertyre 𝔖	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Leith	57	27	42·3	34·3	38·5	- 2·0	1	29	5	0·90	+ 0·46	*	*	*	*
	Marchmont 𝔖	54	23	41·4	31·4	36·6	- 1·2	0	38	5	0·96	+ 0·24	10·5	+ 2·1	21	+ 4
2. ENGLAND, N.E.	Alnwick Castle	59	24	43·8	32·8	38·5	- 1·1	5	35	6	1·03	+ 0·32	*	*	*	*
	Durham	57	22	44·7	32·2	38·7	- 0·2	8	38	4	0·70	+ 0·11	18·2	+ 8·0	36	+ 16
	Shields	56	26	44·3	33·0	38·9	- 1·4	6	35	5	0·87	+ 0·33	*	*	*	*
	Scarborough 𝔐	55	27	43·7	35·9	42·6	+ 2·2	30	17	5	1·11	+ 0·48	7·8	—	15	—
	Spurn Head	53	30	45·9	37·0	41·6	+ 0·9	11	21	5	0·50	+ 0·03	*	*	*	*
	Lincoln	56	24	45·1	34·1	39·8	- 0·4	9	31	5	0·42	- 0·04	*	*	*	*
	Fulbeck (Lincolnshire)	55	25	43·1	32·7	38·1	- 0·4	3	35	5	0·63	+ 0·17	7·3	—	14	—
3. ENGLAND, E.	Hillington 𝔐	54	22	45·0	35·0	40·2	+ 1·3	8	28	6	1·16	+ 0·59	7·3	- 2·9	14	- 5
	Yarmouth	53	29	45·6	37·1	41·5	+ 1·4	10	21	5	1·02	+ 0·43	*	*	*	*
	Geldeston	54	25	45·9	36·1	41·2	+ 1·0	11	25	6	1·10	+ 0·57	4·7	- 7·3	9	- 14
	Cambridge	55	23	46·4	34·5	40·7	+ 1·2	12	31	7	0·84	+ 0·43	7·8	- 2·6	15	- 5
	Felixstowe	50	28	47·4	36·9	42·4	+ 1·6	24	14	7	1·17	—	2·7	—	5	—
	Clacton-on-Sea	49	28	45·0	36·3	40·8	+ 0·2	8	23	6	0·94	—	5·3†	—	10†	—
	Rothamsted	54	23	45·2	33·9	39·8	+ 0·3	9	32	7	1·29	+ 0·72	7·9	- 3·0	15	- 6
	Shoeburyness	53	28	46·6	38·0	42·5	+ 1·4	20	11	5	1·10	+ 0·67	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	56	21	42·2	32·8	37·7	- 1·2	1	34	6	0·67	- 0·03	15·2	—	29	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	56	21	44·6	32·6	38·8	- 0·8	7	36	5	0·79	+ 0·34	5·1	—	10	—
	Colly Weston (Stamford)	54	24	43·0	34·0	38·7	- 0·3	3	30	6	0·78	+ 0·28	*	*	*	*
	Cheadle 𝔐	53	26	42·7	32·7	37·9	- 0·6	2	34	6	0·76	+ 0·04	*	*	*	*
	Birmingham (Edgbaston)	54	29	43·2	35·4	39·5	- 0·5	3	25	6	0·99	+ 0·45	4·5	—	9	—
	Shrewsbury	57	27	45·2	34·6	40·1	- 0·7	9	30	5	0·37	—	*	*	*	*
	Hereford 𝔐	54	28	44·0	34·9	39·6	- 0·4	6	27	7	1·31	+ 0·76	*	*	*	*
	Cirencester	55	23	44·9	32·4	38·9	- 0·2	8	37	7	1·11	+ 0·46	10·4	+ 0·1	19	0
	Oxford	55	30	45·7	37·1	41·6	+ 1·6	10	21	7	0·97	+ 0·47	10·6	+ 0·3	20	+ 1
5. ENGLAND, S.	London	54	28	46·4	38·0	42·4	+ 1·6	20	11	6	1·45	+ 0·95	4·8‡	- 0·9‡	9‡	- 2‡
	Wisley (Surrey)	54	27	46·2	37·6	42·1	0·0	19	12	7	1·56	—	5·7	—	10	—
	Swarraton (Alresford) 𝔐	53	23	45·6	35·7	40·9	+ 1·3	10	26	7	2·08	+ 1·38	*	*	*	*
	Tunbridge Wells 𝔐	53	27	46·6	37·3	42·1	+ 1·7	20	13	7	2·70	—	4·8	—	9	—
	Dungeness	53	27	48·3	40·0	44·3	+ 1·9	25	6	7	1·23	+ 0·72	1·5	—	3	—
	Hastings (St. Leonards)	54	31	48·4	39·0	43·9	+ 1·6	26	8	7	1·91	+ 1·24	3·6	- 10·5	7	- 19
	Southampton	55	29	49·6	38·1	44·1	+ 2·1	31	11	6	2·55	+ 1·82	11·2	- 0·8	20	- 1
	Portland Bill	54	35	50·6	43·4	47·1	+ 3·7	36	0	7	1·73	—	*	*	*	*
	Shaftesbury 𝔐	52	32	44·6	38·1	41·5	+ 2·7	7	17	7	2·10	+ 1·35	*	*	*	*
6. SCOTLAND, W	Laudale (Loch Sunart)	55	25	42·0	32·4	37·4	- 4·3	0	32	5	1·77	- 0·35	*	*	*	*
	Glasgow	55	30	41·9	34·5	38·4	- 1·5	0	25	4	0·90	- 0·04	7·2	+ 2·7	15	+ 6
	Cally 𝔖	52	21	40·9	32·6	36·9	- 3·1	0	36	4	1·06	- 0·14	*	*	*	*
	Aspatria	54	26	42·6	34·2	38·6	- 1·9	2	29	5	1·25	—	8·2	—	16	—
	Douglas (Isle of Man)	54	25	45·2	36·3	40·9	- 1·8	9	23	6	0·67	- 0·40	20·6	+ 10·6	40	+ 21
7. ENGLAND, N.W.	Newton Rigg	53	12	41·7	27·7	35·0	- 3·9	0	49	5	1·94	—	9·9	—	20	—
	Stonyhurst	54	24	43·4	34·2	39·0	- 0·8	4	30	5	0·80	- 0·29	11·0	+ 4·0	21	+ 8
	Blackpool 𝔐	54	26	44·8	35·1	40·1	- 0·6	8	27	6	0·79	+ 0·06	17·1	+ 10·2	33	+ 20
	Manchester (Prestwich)	54	25	43·4	33·9	38·8	- 1·0	4	30	4	0·60	- 0·25	7·3	—	14	—
	Liverpool Obsy. (Bidston)	57	30	44·1	36·3	40·4	- 1·0	6	23	7	0·94	+ 0·33				
	Chester (Hawarden Bridge)	59	28	45·4	35·9	40·8	- 1·3	10	25	5	1·16	—	*	*	*	*
	Llandudno 𝔐	60	31	47·2	39·0	43·3	- 0·1	22	8	7	1·03	+ 0·31	11·5	+ 2·5	22	+ 5
	Holyhead	54	34	46·4	41·0	43·8	- 0·5	17	3	5	0·97	+ 0·09	*	*	*	*
	Bettws-y-Coed	56	28	45·3	36·1	40·9	- 2·3	9	24	7	2·31	—	4·5	—	9	—
8. ENGLAND, S.W.	Llangammarch Wells	54	25	43·0	33·3	38·3	- 1·2	3	32	6	2·40	—	7·2	—	13	—
	Pembroke	55	39	49·7	44·0	47·0	+ 1·6	35	0	7	1·91	+ 0·97	14·1	+ 2·9	26	+ 5
	Cardiff	56	28	47·0	37·1	42·3	- 0·3	23	14	7	1·87	—	*	*	*	*
	Clifton	56	32	46·6	38·4	42·7	+ 1·1	20	10	7	1·23	+ 0·47	*	*	*	*
	Bath	56	28	47·1	36·7	42 1	+ 1·1	23	15	7	1·03	+ 0·35	8·7	—	16	—
	Arlington (N. Devon)	53	32	46·4	37·6	42·2	+ 0·6	20	12	6	2·16	+ 0·75	*	*	*	*
	Cullompton 𝔐	55	29	49·0	36·5	43·0	+ 2·4	30	15	6	2·04	+ 1·19	10·5	+ 0·5	19	+ 1
	Falmouth	55	28	52·4	43·3	48·0	+ 2·3	42	0	7	3·02	+ 1·76	18·4	+ 4·8	33	+ 9
	Plymouth	55	36	51·3	41·6	46·6	+ 2·3	34	1	7	2·58	+ 1·65	18·2	+ 5·8	33	+ 10
9. IRELAND, N.	Malin Head	55	29	?44·1	38·6	41·5	- 1·3	6	14	6	1·27	+ 0·51	*	*	*	*
	Edenfel (Omagh)	54	25	40·7	31·4	36·2	- 2·8	0	41	5	0·74	- 0·11	*	*	*	*
	Blacksod Point	56	32	46·1	39·4	42·9	- 1·0	17	7	7	1·56	+ 0·22	*	*	*	*
	Markree Castle	55	28	44·0	33·3	39·1	- 1·5	6	32	7	1·18	+ 0·23	14·0	+ 4·8	28	+ 10
	Armagh	56	27	43·6	33·3	38·7	- 1·5	4	33	6	0·43	- 0·24	25·1	+ 15·5	49	+ 30
	Donaghadee	53	28	43·3	34·9	39·3	- 3·1	4	27	5	0·61	- 0·07	*	*	*	*
10. IRELAND, S.	Dublin	59	31	46·9	37·7	42·5	- 0·2	22	12	5	0·73	+ 0·19	28·0	+ 14·9	54	+ 29
	Birr Castle	57	24	45·9	32·0	39·2	- 1·8	11	39	7	0·45	- 0·28	19·1	+ 7·8	36	+ 15
	Kilkenny	56	25	46·9	31·7	39·6	- 2·4	14	42	5	0·77	+ 0·02	*	*	*	*
	Waterford	54	29	48·7	35·0	42·1	- 0·5	30	20	5	1·20	+ 0·22	*	*	*	*
	Roche's Point	54	34	49·1	38·7	44·1	- 1·1	29	9	7	1·74	+ 0·54	*	*	*	*
	Valencia	56	32	50·4	38·0	44·5	- 1·5	34	11	7	1·54	+ 0·13	16·2	+ 5·2	30	+ 10
	Killarney	56	28	50·2	35·3	43·1	- 1·1	36	19	6	1·49	- 0·13	*	*	*	*
	Foynes	56	29	48·7	34·8	42·0	- 0·9	19	20	5	0·69	- 0·35	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	40	52·1	45·0	48·7	+ 0·8	47	0	6	2·14	+ 1·20	20·5	+ 5·9	37	+ 11
	Jersey	56	34	52·4	45·1	48·9	+ 3·4	48	0	7	2·88	+ 2·00	12·8	- 2·2	23	- 4

Information for Stations marked 𝔐 is supplied by the Royal Meteorological Society, and that for Stations marked 𝔖 is supplied by the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

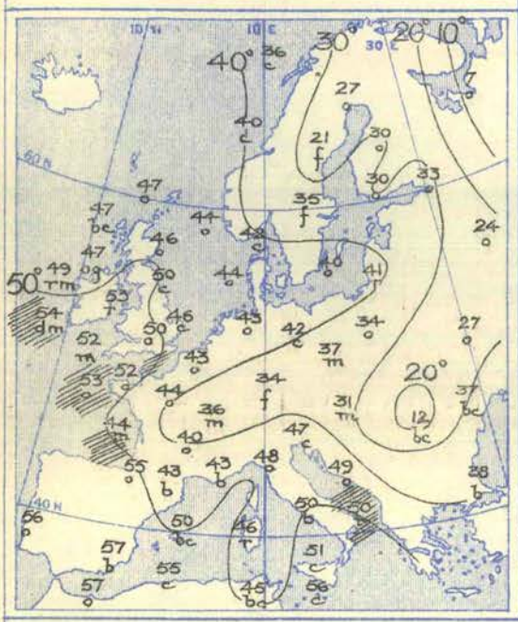
† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 33 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

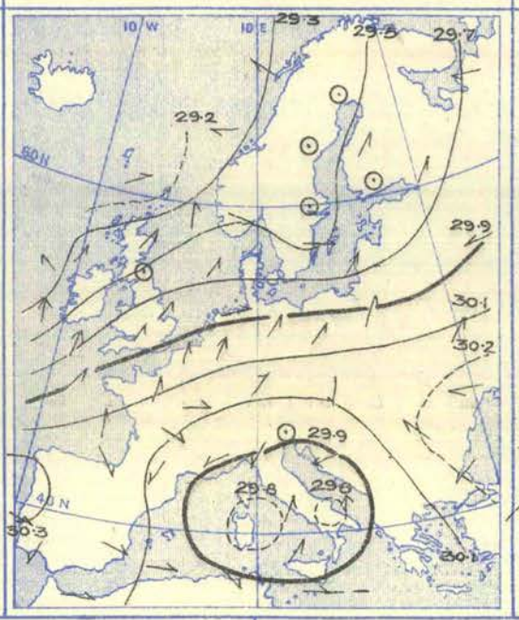
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 4th December, 1904.

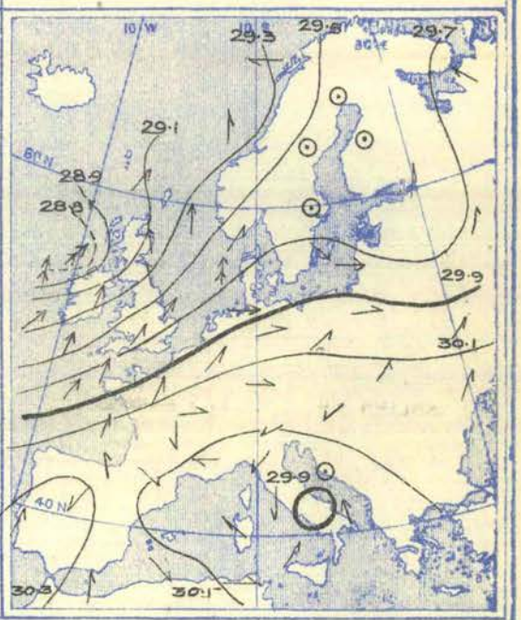
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast very generally, with rain on our own west coasts and in some parts of southern Europe and Algeria. Rain falling later over the whole of the United Kingdom and in many parts of the Continent—largest amount, 1·2 in. at Stornoway.

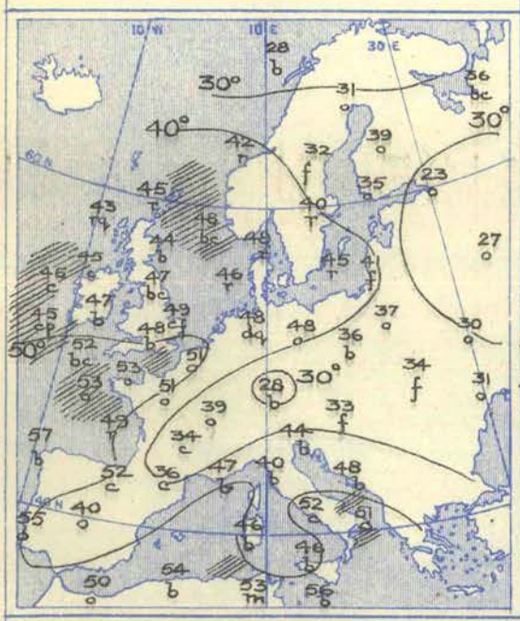
Temperature risen in almost all places. Morning readings highest, 57° or 56° at a few stations in the extreme south, 55° at Biarritz, and 54° at Valencia Island. Lowest, (1) 7° at Archangel, (2) 12° at Hermanstadt. Rising during day to 57° in some parts of our Islands and at Nice, to above 60° in some extreme southern localities, and to 73° at Palma. Frost continuing all day in various parts of Russia and Scandinavia.

Wind at 8 a.m. showing a circulation of moderate to strong cyclonic breezes over Italy and the Mediterranean. Fresh or strong Southerly winds prevailing on our south-west coasts and light to moderate South-West or West winds over the northern half of our area generally. Little change later on the Continent, but strong winds or gales setting in over the United Kingdom.

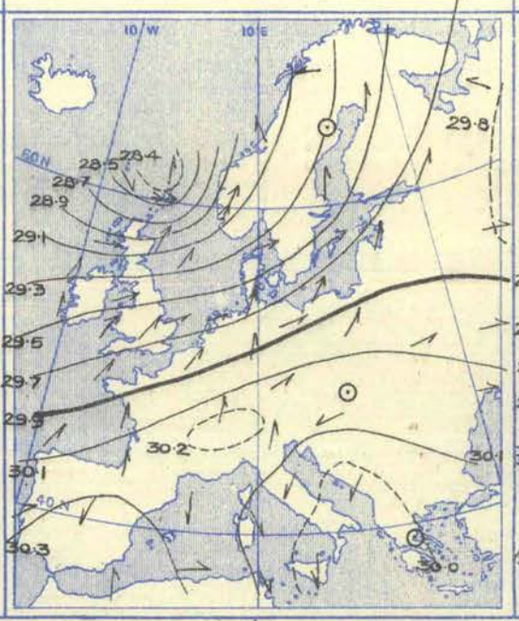
Barometer at 8 a.m. ranging from above 30·3 ins. in Portugal and above 30·2 ins. over the south-east of our area to below 29·8 ins. in a depression lying between Sardinia and Italy, and to less than 29·2 ins. in a larger system off the north of Scotland. Barometer falling quickly on our west and south-west coasts during day, and a deep depression shown off the north-west of Ireland by 6 p.m. (Malin Head 28·76 ins.). Disturbance in the south travelling eastwards.

Monday, 5th December, 1904.

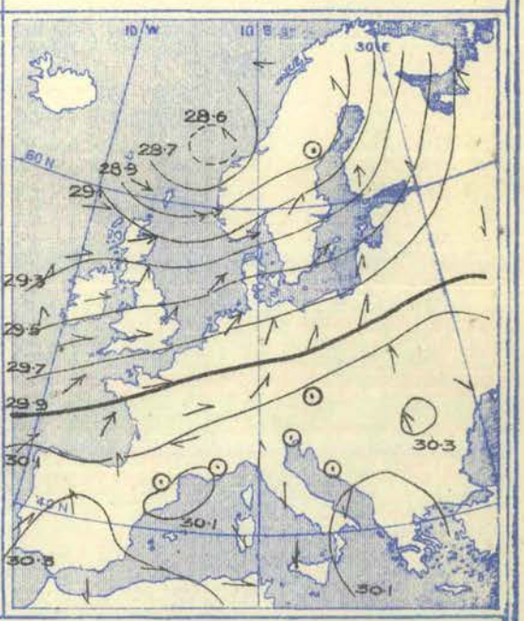
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast as a whole, with rain in Scotland and several of the northern Continental regions. Fair or fine in England and Italy. Rain falling later except over central and southern Europe and in some parts of Russia.

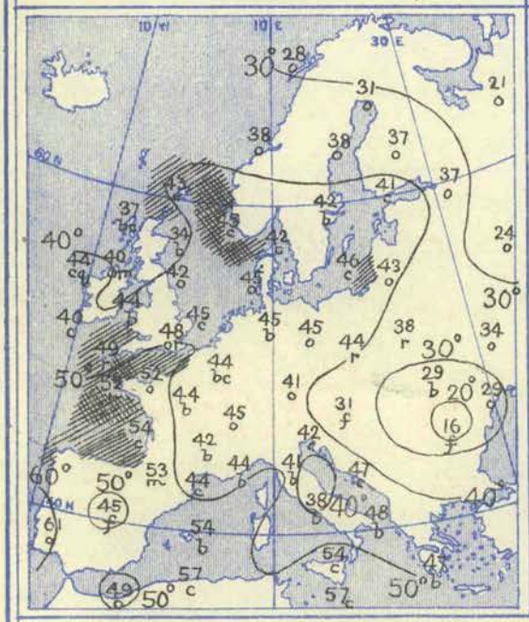
Temperature changed irregularly, fallen over our Islands. Morning readings highest, 58° at La Calle and Lisbon, 57° at Corunna, 56° at Malta, and 53° at Brest and Jersey. Lowest, 23° at St. Petersburg, 27° at Moscow, 28° at Munich and Bodö, 32° at Turin, and 34° at Lyons. Rising later to 53° or 54° over central England, to 57° at Nice, to above 60° in Algeria, Sicily, Malta, and Sardinia, and to 73° at Palma. Frost continuing in the extreme north and north-east.

Wind at 8 a.m. fresh or strong to a gale from between South-West and West over our Islands, strong to a gale from the Southward on the eastern shores of the North Sea, and moderate from the Eastward in the north of Norway. A light cyclonic movement of winds prevailing over Greece and the Ionian Sea. Falling to a moderate breeze and veering later over this country and increasing and veering somewhat in the south of Scandinavia.

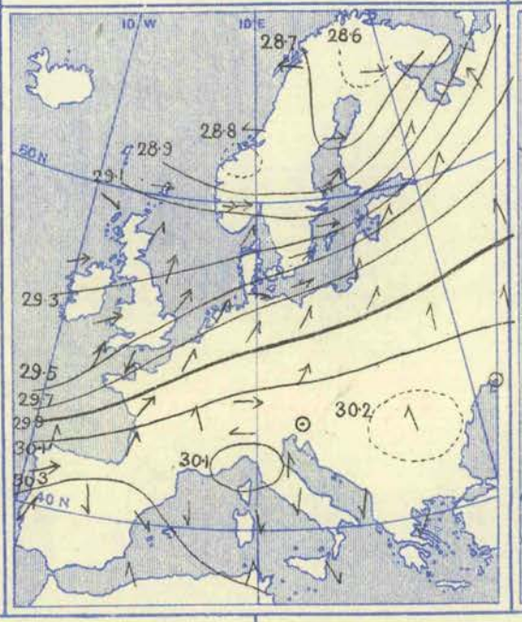
Barometer at 8 a.m. highest, above 30·3 ins. over the southern half of Spain and the north-west of Africa. Lowest, 28·4 ins. and less in a very deep depression centred near the Shetlands. Gradients extremely steep over Scotland and its neighbourhood. Disturbance moving north-eastwards later and pressure increasing very quickly in Scotland. Barometer inclined to fall again in the south-west and west of our Islands.

Tuesday, 6th December, 1904.

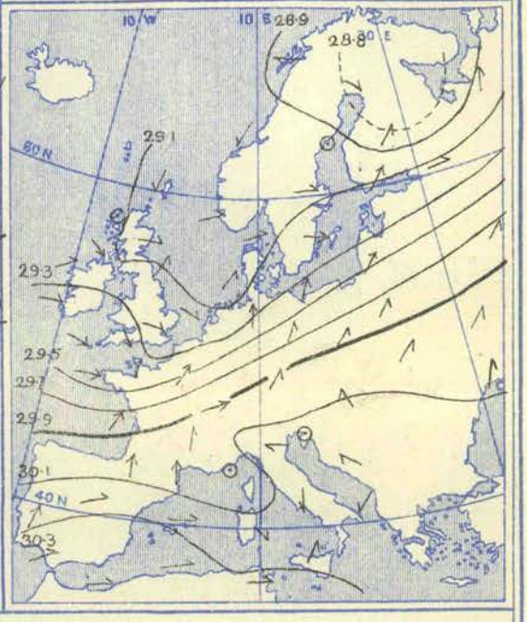
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine in many southern regions and over the more northern parts of our Islands. Cloudy or overcast generally, with rain over our southern counties and the north-west of France, as well as at Oporto. Heavy rain falling later in Normandy, Brittany, the south and south-east of England, the Netherlands, and different parts of Germany—largest amounts, 2·25 ins. at Cuxhaven, 1·25 in. at Jersey, more than an inch at Lorient and Brest, and 0·94 in. in London.

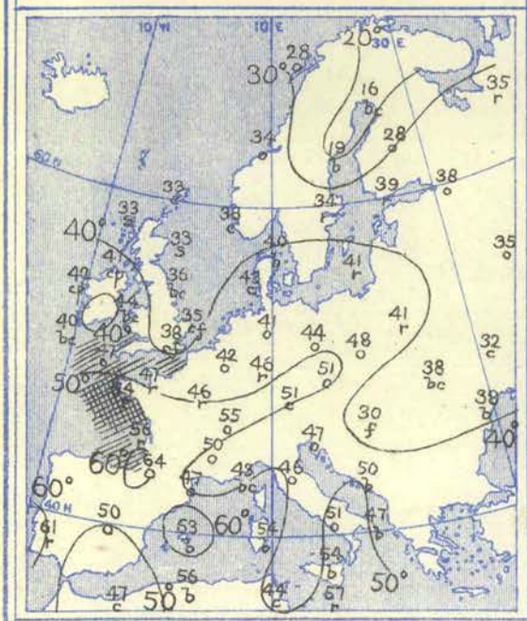
Temperature fallen in most parts of our Islands and Italy, risen in many other localities. Morning readings highest, 61° at Lisbon, 57° at Malta, Algiers, and Barcelona, and above 50° on the west coast of France and on the south coast of England. Lowest, (1) 16° at Hermanstadt, (2) 21° at Archangel, 24° at Moscow, (3) 34° at Aberdeen, 36° at Parsonstown, (4) 37° at Pesaro, 38° at Rome. Rising later to above 60° at a few stations in the extreme south and at Biarritz. Highest reading, 70° at Sfax.

Wind at 8 a.m. South-Westerly to Westerly except in the south of our area; fresh or strong over the north of France and the south of England, and blowing a fresh or strong gale in the south of Scandinavia. Latter subsiding during day, but a South-Westerly to Westerly or North-Westerly gale springing up on our southern coasts, the north of France, and over Belgium and Holland. Veering to the North-West or North on our most northern coasts.

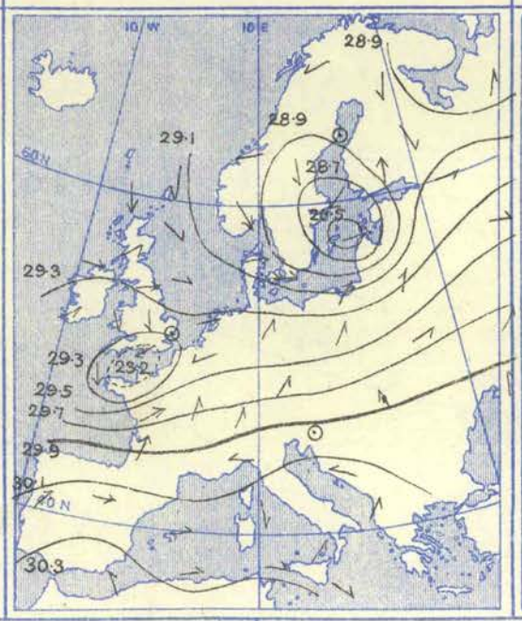
Barometer at 8 a.m. highest, 30·3 ins. to 30·4 ins. over Algeria and the southern half of Spain, and above 30·2 ins. over Transylvania and its vicinity. Lowest, 28·6 ins. and less in a depression over Lapland, below 28·3 ins. in another minimum in the west of Norway, and relatively low in a third system over the Gulf of Genoa. Barometer falling quickly at the mouth of the English Channel. A depression travelling eastwards over our southern counties during day, and gradients becoming very steep over the north of France and North Germany.

Wednesday, 7th December, 1904.

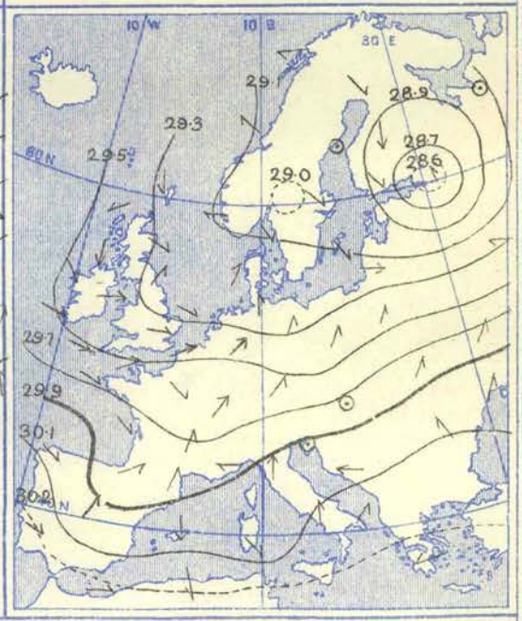
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in Algeria and at some other southern localities; cloudy or overcast and very unsettled as a whole. Snow falling in Scotland, showers in the north of Ireland, and steady rain over the south of Sweden and Finland, at Frankfort, and in most parts of France, as well as at Bilbao and Lisbon. Fog prevailing in the south-east of England. Rain or snow later in most regions, but scarcely any in far south—heaviest falls, 0·9 in. in the north-east of France and 1·2 in. at Biarritz.

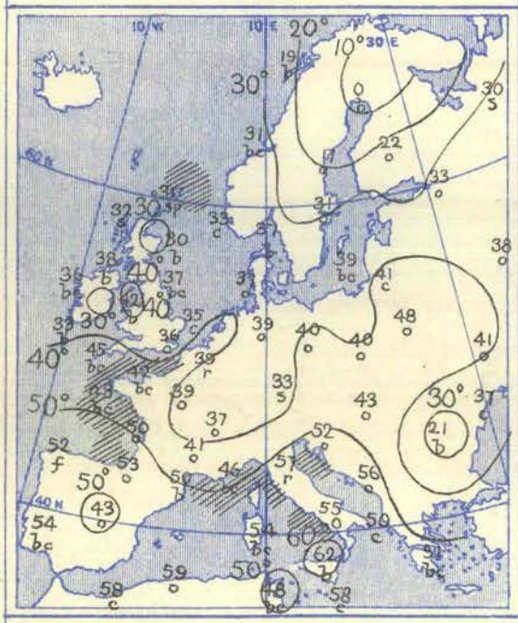
Temperature fallen generally, but risen in several southern and central regions. Morning readings highest, 64° at Biarritz, 63° at Palma, 62° at Barcelona, and 61° at Lisbon. Lowest, (1) 16° at Haparanda, 19° at Hernösand, (2) 33° in Scotland, 34° at Parsonstown, and 36° at Nottingham, (3) 43° at Rome. Rising later to 60° at Paris, rather higher at Palermo and Cagliari, and to 72° at Tunis.

Wind at 8 a.m. showing two distinct cyclonic circulations—one around Gothland, and the other around Brittany. Strong breezes or moderate gales prevailing in several places, but force only moderate as a whole. Some decrease in force taking place in many localities later, and direction becoming Westerly over the Channel and the west and north of France.

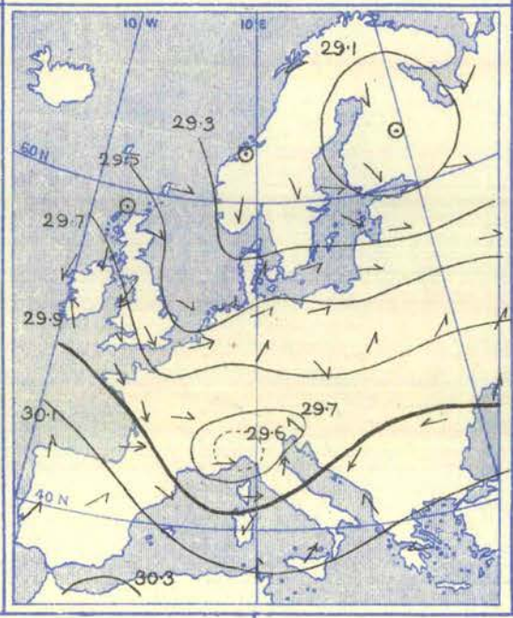
Barometer at 8 a.m. ranging from above 30·3 ins. in Morocco and Algeria to below 29·2 ins. in a depression over Brittany, and to less than 28·5 ins. in another disturbance centred near Wisby. Northern depression moving east-north-eastwards during day, and that over Brittany dispersing. Gradients becoming less steep generally, especially over the Bay of Biscay and the Baltic.

Thursday, 8th December, 1904.

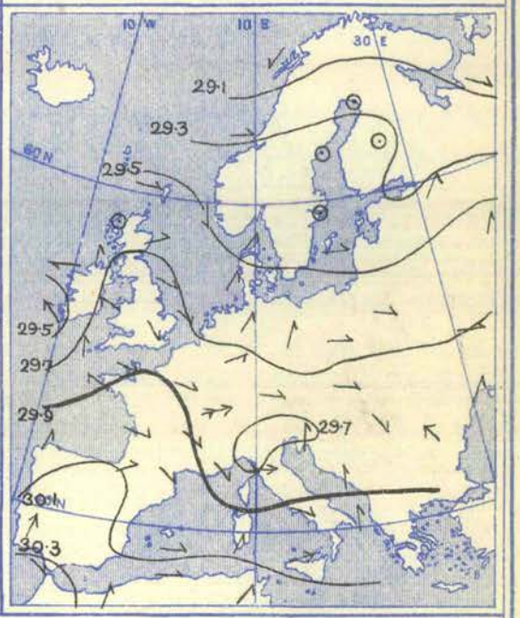
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine in a few places, but cloudy or overcast generally, snow falling in the Shetlands and Hebrides, at Munich and Archangel, and rain in Belgium and at Bilbao. Sleet or rain falling in some English localities. Considerable amounts of sleet or snow experienced later in the north of our Islands and in some northern and central regions of the Continent, and of rain in the south of this country, in France, Portugal, and some other southern districts.

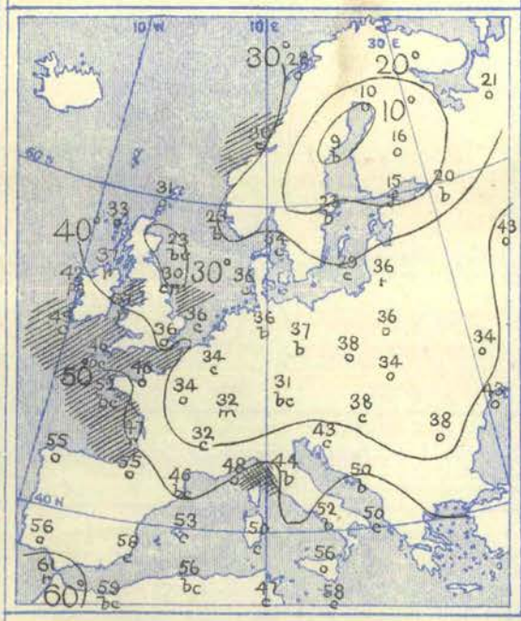
Temperature risen in Algeria, Italy, and Hungary, fallen elsewhere. Morning readings highest, 62° at Palermo, 59 at Palma and Pesaro, 54° at Lisbon, and 53° at Biarritz. Lowest, (1) 0° at Haparanda, 17° at Hernösand, (2) 21° at Hermanstadt, (3) 26° at Parsonstown, 28° at Nairn, and not much above 32° over our Islands generally, (4) 43° at Madrid. Rising to nearly 70° in Algeria and Sicily later, and to 60° or above in several southern localities, but maxima very low over northern Europe—frost continuing all day in places.

Wind at 8 a.m. light from South-South-East at Valencia, but moderate to strong from North-West over the United Kingdom generally. A light circulation of cyclonic winds prevailing in the north of Europe and another of stronger winds in the south. Wind backing to South, South-East, or East on our western and south-western coasts by evening and increasing to a strong breeze or to a gale.

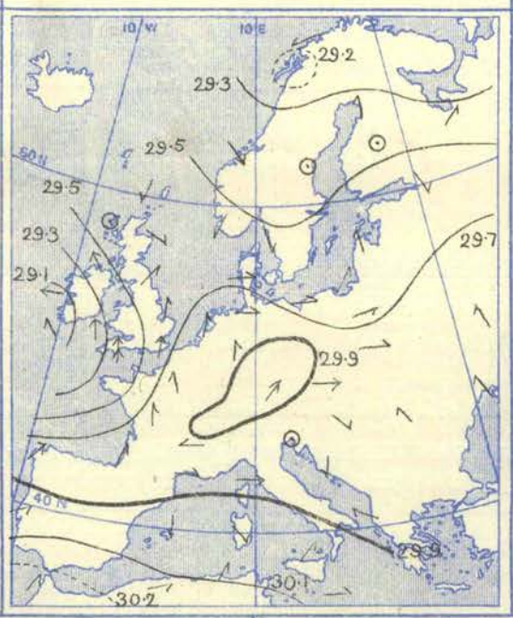
Barometer at 8 a.m. ranging from above 30·2 ins. both in the south-east and south-west of our area to less than 29·6 ins. in a small minimum over the south-east of France, and to less than 29·1 ins. in a large depression over Finland. Latter moving away north-eastwards during day, but a very brisk fall of the barometer taking place in Ireland, and a deep depression advancing on that country rapidly from the Atlantic. Pressure giving way over the south-east of Europe.

Friday, 9th December, 1904.

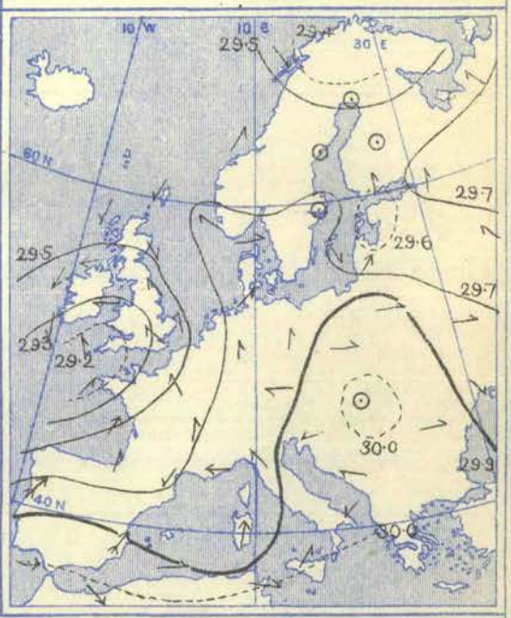
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in some parts both of western and southern Europe; cloudy or overcast generally, with rain in many parts of our Islands and France as well as at Prague. Snow or sleet fallen at Oxford and Liverpool. Much precipitation later in nearly all regions—largest amounts, 0·6 in. at Liverpool, 1·2 in. at Rochefort, and 2·0 ins. at Belfort.

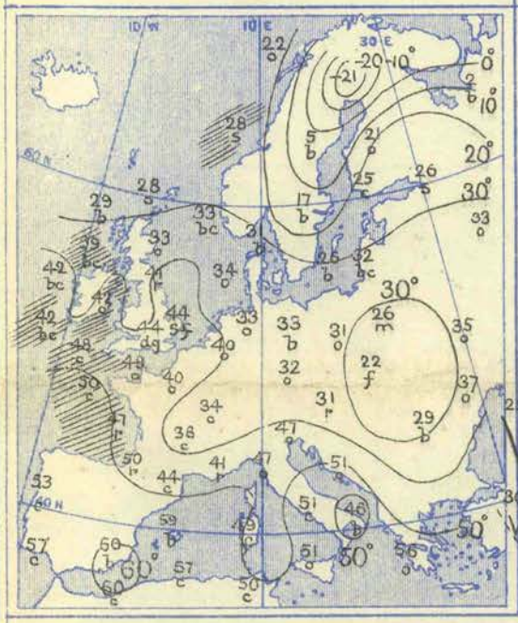
Temperature changed irregularly; risen quickly in Ireland. Morning readings highest, 61° at San Fernando, 59° at Nemours, 58° at Malta, and 55° at Biarritz. Lowest, (1) 10° at Haparanda, 9° at Hernösand, (2) 22° at Nairn, 23° at Aberdeen, 32° at Lyons and Belfort, and 31° at Munich. Rising during day to 53° at Scilly, Jersey, and Perpignan, and to above 60° in the extreme south. Highest value, 70° at La Calle. Severe frost continuing all day in north-eastern and northern Europe, and thermometer only rising to 33° at Aberdeen.

Wind at 8 a.m. strong to a slight gale from South or South-East over the south and south-west of England, strong from the Eastward in the north-west of England and north of Ireland, and strong from West or South-West over the Bay of Biscay. Light and anticyclonic over the central countries of the Continent generally, but strong at Munich. Increasing to a fresh or strong gale by evening over the north-east of England and the Irish Sea, and increasing in force over our Islands and their neighbourhood generally.

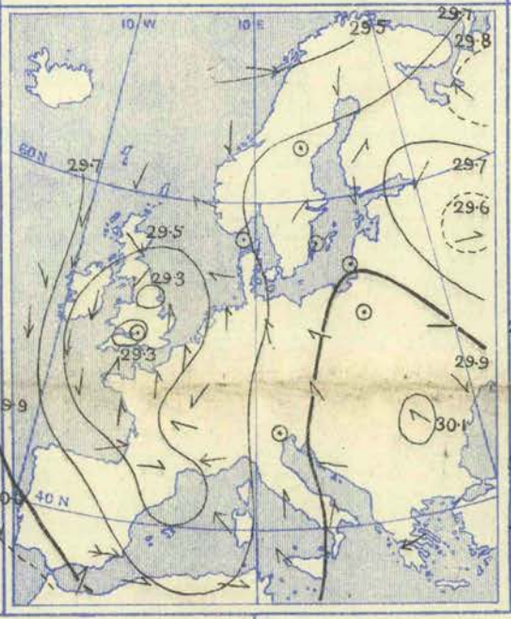
Barometer at 8 a.m. ranging from above 30·2 ins. over Morocco and above 29·9 ins. in an anticyclone over central Europe, to less than 29·2 ins. in a depression centred near Bodö, to less than 29·1 ins. in another system advancing on our south-west coasts. Latter moving eastwards during day, and a general fall of the mercury taking place over England and the nearer parts of the Continent. Barometer rising again briskly in Ireland.

Saturday, 10th December, 1904.

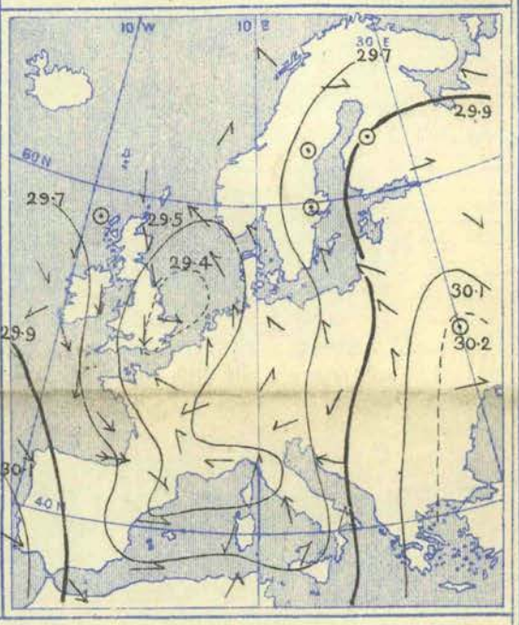
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in a few isolated places, but cloudy or overcast generally and very unsettled. Rain falling in various parts of the western countries and at Nice and Buda-Pesth, and snow at Turin, Christiansund, and St. Petersburg. Rain or snow experienced in nearly all regions later—largest falls, 1·2 in. at Hermanstadt and Algiers, 1·5 in. at Rome, and 2·2 ins. at Lyons.

Temperature changed very irregularly—fallen quickly over central Europe, risen in Scotland. Morning readings highest, 59° at Palma, 56° at Patras, and 55° at Lisbon. Lowest, −21° at Haparanda, +2° at St. Petersburg, 5° at Hernösand, and a little above or below 32° over the major portion of Europe. Lowest in our Islands, 28° at Sumburgh Head. Thermometer only rising to about 35° in Scotland, but touching 49° or 50° on our south-west coasts, 55° in the south-west of France, and exceeding 60° at some Mediterranean stations. Highest value, 68° at Palermo and Oran. Severe frost in Scotland at night.

Wind at 8 a.m. circulating cyclonically around the east of England, the Northerly current in the west blowing a strong breeze. An irregular cyclonic circulation, strong to a gale, prevailing over the western part of the Mediterranean, and light anticyclonic airs over the south-east of Europe. Northerly wind extending to all our coasts by evening and blowing strongly in places, but falling light and showing a backing tendency in Ireland.

Barometer, at 8 a.m. ranging from above 30·1 ins. in an anticyclone centred near Hermanstadt, to 29·6 ins. in a depression near Moscow, to 29·5 ins. in the far north of Norway, and to less than 29·3 ins. in a depression with two minima over England. Russian depression disappearing from our area by evening and that over our Islands moving eastwards. Recovery of pressure ceasing on our extreme north-west coasts.

IV.—GENERAL NOTES, etc.

Barometric pressure was in a very disturbed condition throughout the period. It was, as a rule, highest in the south-western part of our area, but sometimes in the south or south-east of Europe. Several deep depressions travelled in an easterly direction over the more northern countries, some of their centres moving directly over the United Kingdom. There were also other disturbances of less depth which appeared at times over southern Europe and the Mediterranean. The latter were generally accompanied by strong winds and only occasionally by gales, but the northern storm centres gave rise to gales from various quarters—mostly between South and West, but late in the week from South-East or East and North—both over our Islands and many parts of the Continent. Rain or snow was of frequent occurrence in all the more northern regions, and rain was experienced from time to time in the south. Severe frost prevailed almost without intermission in the extreme north and north-east of Europe, and temperature was low generally. The most southern localities, were, however, warmer than during the preceding week, and no frost was reported either in Italy or the Riviera.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 290.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	5·6	− 1·1	13	− 3
STRATHPEFFER SPA	6·2	− 1·5	14	− 3
CRATHES	8·5	—	18	—
BALRUDDERY	14·6	—	31	—
EDINBURGH	6·2	− 0·1	13	0
COCKLE PARK	20·2	—	40	—
NEWCASTLE-on-TYNE	11·2	—	22	—
YORK	9·8	+ 3·2	19	+ 6
SKEGNESS	8·3	—	16	—
CROMER	—	—	—	—
LOWESTOFT	6·5	—	12	—
DUNMOW	5·2	—	10	—
SHEFFIELD	8·5	—	16	—
WORKSOP	8·7	+ 0·9	17	+ 2
THURCASTON	7·7	− 0·3	15	− 1
MARGATE	2·0	− 9·4	4	− 17
BROADSTAIRS	1·7	—	3	—
RAMSGATE	1·7	—	3	—
EASTBOURNE	6·9	− 6·1	13	− 11
BRIGHTON	4·3	− 8·4	8	− 15
WORTHING	8·0	—	15	—
BOGNOR	12·9†	—	24†	—
WESTBOURNE	9·9†	− 2·4	18†	− 4
VENTNOR HOSPITAL	9·9	− 2·8	18	− 4
BOURNEMOUTH	11·3	—	21	—
MARLBOROUGH	—	—	—	—
SOUTHPORT	12·6	—	24	—
RHYL	13·5	—	26	—
ABERDOVEY	12·1†	—	23†	—
TENBY	11·9	+ 0·7	22	+ 1
TORQUAY	15·3	+ 3·3	29	+ 6
NEWQUAY	14·2	+ 1·2	26	+ 2
GUERNSEY	12·8†	+ 1·5	23†	+ 3

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 37, page 218	Portland Bill	—	—	—	54·9	—	—	—	—	—	—	—	—	—	—	—
" " "	Cullompton	—	—	—	50·7	57·7	+ 0·7	110	—	—	—	—	—	—	—	—
No. 38, page 224	Dungeness	—	—	60·1	—	55·9	− 1·3	97	—	—	—	—	—	—	—	—
" " "	Laudale	—	—	—	—	—	—	—	—	0	0·00	− 1·67	—	—	—	—
" " "	Pembroke	—	—	—	—	—	—	—	—	—	—	—	49·5	+37·0	—	—
No. 39 page 230	Leith	—	—	—	—	—	—	—	—	4	—	—	—	—	—	—

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TWENTY-SEVENTH YEAR. *Vol. XXI. (New Series.)* No. 50. FIFTIETH WEEK, ENDING SATURDAY, DECEMBER 17TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 296.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	53	13	43·8	33·7	38·9	1 above	5	− 3	31	+ 2	2054	+ 39	700	− 39
	1. SCOTLAND, EAST	58	6	43·7	31·6	37·9	0 (average)	5	− 3	39	+ 3	2245	−121	828	+ 3
	2. ENGLAND, N.E.	60	23	46·3	34·6	40·7	2 above	12	+ 2	31	+ 1	2782	+187	605	− 44
	3. ENGLAND, EAST	56	26	46·9	35·6	41·5	3 above	14	+ 3	28	− 6	3084	+ 76	562*	−155
	4. MIDLAND COUNTIES	58	25	47·0	34·6	41·1	3 above	14	+ 2	32	− 3	2825	−120	707	− 44
	5. ENGLAND, SOUTH	56	27	48·8	37·7	43·4	3 above	28	+12	12	−12	3200	−132	454	− 64
Principal Grazing Districts.	6. SCOTLAND, WEST	57	20	45·2	35·4	40·5	0 (average)	9	− 4	27	+ 5	2497	− 44	534	− 20
	7. ENGLAND, N.W.	59	16	46·7	36·9	42·0	1 above	13	− 1	14	− 9	2744	− 53	499	− 16
	8. ENGLAND, S.W.	59	26	49·9	38·4	44·4	3 above	32	+10	10	− 6	3162	+ 14	356	− 32
	9. IRELAND, NORTH	56	26	46·9	35·5	41·4	1 above	14	− 1	23	+ 7	2555	−140	444	− 36
	10. IRELAND SOUTH	59	23	50·2	37·4	44·1	1 above	34	+10	13	− 3	3091	− 10	323	− 31
	— CHANNEL ISLANDS	58	40	52·4	44·2	48·5	3 above	46	+11	0	− 4	3796	+ 61	89	− 50

Rainfall.

	DISTRICTS. (See p. 296.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	19	7 more	244	+25	50·6	+ 3·9
	1. SCOTLAND, EAST	6	9	3 more	195	+ 7	25·5	− 4·4
	2. ENGLAND, N.E.	6	8	3 more	161	−12	20·9	− 3·4
	3. ENGLAND, EAST	5	7	2 more	158	−17	20·0	− 3·5
	4. MIDLAND COUNTIES	6	7	2 more	169	+ 3	23·5	− 3·0
	5. ENGLAND, SOUTH	6	8	2 more	173	+ 9	26·3	− 0·9
Principal Grazing Districts.	6. SCOTLAND, WEST	7	21	8 more	202	+ 8	47·5	− 0·8
	7. ENGLAND, N.W.	6	15	7 more	189	+ 5	31·1	− 2·6
	8. ENGLAND, S.W.	6	11	2 more	191	+ 5	37·2	+ 0·5
	9. IRELAND, NORTH	7	13	4 more	245	+25	38·2	+ 3·1
	10. IRELAND, SOUTH	6	10	0 (average)	212	+13	38·8	− 0·1
	— CHANNEL ISLANDS	6	11	2 more	222	+30	35·7	+ 4·0

Bright Sunshine.

	DISTRICTS. (See p. 296.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	− 1	9	− 3	1169	+ 58	27	+ 1
	1. SCOTLAND, EAST	7	0	15	0	1268	− 29	29	− 1
	2. ENGLAND, N.E.	14	+ 5	28	+10	1431*	− 1	33	0
	3. ENGLAND, EAST	12	+ 2	23	+ 4	1633	+ 34	38	+ 1
	4. MIDLAND COUNTIES	9	+ 1	18	+ 1	1372	+ 39	32	+ 1
	5. ENGLAND, SOUTH	6	− 4	11	− 7	1602	+ 32	37	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	7	+ 3	15	+ 6	1312	− 31	30	− 1
	7. ENGLAND, N.W.	7	+ 1	14	+ 2	1425	+133	33	+ 3
	8. ENGLAND, S.W.	8	− 1	15	− 2	1525	− 88	35	− 2
	9. IRELAND, NORTH	9	+ 1	18	+ 2	1233	− 21	29	− 1
	10. IRELAND, SOUTH	7	− 3	14	− 7	1342*	− 93	31	− 2
	— CHANNEL ISLANDS	8	− 5	15	− 8	1802	− 63	42	− 1

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather was again very unsettled, with frequent and considerable falls of rain generally, and with sleet and snow over the northern half of the United Kingdom in the earlier half of the week.

Temperature was low as the week commenced, especially in Scotland, but subsequently rose decidedly, and by Friday became unusually high for the time of year. The average for the week was just equal to the mean in the east and west of Scotland, but from 1° to 3° above it elsewhere. The highest of the maxima, recorded on either the 16th or 17th, were as high as 60° in England N.E. (at Lincoln), 59° in England N.W. and S.W. and Ireland S., and between 56° and 58° in nearly all other districts. In Scotland N., however, the thermometer did not exceed 53°. The lowest of the minima were registered on the 11th in most localities, but a few days later at various English and Irish stations. In Scotland E. (at Braemar) the thermometer fell to 6°, in Scotland N. to 13°, and in England N.W. to 16°, while elsewhere the minima ranged from 20° in Scotland W. to 27° in England S., and to 40° in the Channel Islands.

Rainfall exceeded the mean in all districts except Ireland S., the excess being considerable in the north and west of Scotland and the north-west of England.

Bright Sunshine was deficient in the southern parts of England, Ireland, and also in the Channel Islands and Scotland N., while in Scotland E. it only just equalled the mean. Elsewhere there was an excess. The percentage of the possible duration ranged from 28 in England N.E. and 23 in England E. to 11 in England S., and to 9 in Scotland N.

Barometer and Wind. Soon after the commencement of the week a large depression moved eastwards directly over the Kingdom and caused the barometer to fall below 29·0 ins. very generally. The Southerly and South-Westerly wind in its front failed to rise above a fresh or strong breeze, but owing to a rapid increase of pressure in its rear the Northerly current blew strongly on all our coasts, and in most places attained gale force. With the disappearance of this system some large depressions skirted our western and northern coasts, and spread a good deal over the country, while the accompanying Southerly and South-Westerly winds blew freshly or strongly generally, and a moderate gale on many parts of our western and north-western coasts.

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II.—DATA from which the SUMMARY on page 295 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ℳ	49	25	43·6	35·0	39·5	− 0·2	4	27	7	1·48	+ 0·46	*	*	*	*
	Stornoway ℳ	53	24	46·1	35·7	41·1	+ 1·6	11	26	7	2·54	+ 1·27	4·5	− 1·0	10	− 2
	Wick ℳ	51	23	45·0	34·3	39·9	+ 1·5	8	31	3	0·41	− 0·31	*	*	*	*
	Lairg ℳ	52	26	40·7	32·2	36·6	+ 1·5	0	38	7	?1·05	+ 0·15	*	*	*	*
	Glencarron ℳ	53	16	43·8	32·6	38·4	+ 1·2	5	36	7	3·72	+ 1·43	*	*	*	*
	Fort Augustus ℳ	52	13	43·4	32·1	38·0	− 0·5	4	37	7	2·46	+ 1·26	3·8	+ 1·8	8	+ 4
1. SCOTLAND, E.	Nairn ℳ	54	13	44·9	29·7	37·6	− 0·2	8	47	7	0·43	− 0·05	*	*	*	*
	Aberdeen ℳ	54	19	45·0	33·0	39·2	+ 1·1	8	35	6	1·00	+ 0·27	5·7	− 2·9	13	− 6
	Braemar ℳ	50	6	39·8	30·0	35·1	+ 0·3	0	48	5	0·48	− 0·27	*	*	*	*
	Ochtertyre ℳ	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Leith ℳ	58	22	47·4	33·9	40·9	+ 1·3	15	34	6	1·26	+ 0·33	*	*	*	*
	Marchmont ℳ	52	18	41·4	31·3	36·6	− 0·3	0	38	6	1·24	+ 0·54	6·7	− 0·7	14	− 1
2. ENGLAND, N.E.	Alnwick Castle ℳ	57	23	46·5	33·2	40·1	+ 1·5	13	36	7	1·07	+ 0·38	*	*	*	*
	Durham ℳ	57	24	44·6	35·1	40·0	+ 2·1	7	27	6	0·56	− 0·03	16·8	+ 7·2	34	+ 15
	Shields ℳ	56	25	46·0	32·4	39·5	+ 0·1	11	39	5	0·79	+ 0·26	*	*	*	*
	Scarborough ℳ	56	30	46·6	35·1	41·1	+ 1·8	13	29	6	0·55	− 0·07	11·3	—	23	—
	Spurn Head ℳ	55	34	48·3	36·7	42·7	+ 2·9	27	15	6	0·85	+ 0·39	*	*	*	*
	Lincoln ℳ	60	29	45·8	35·2	40·7	+ 2·1	11	28	6	0·92	+ 0·48	*	*	*	*
	Fulbeck (Lincolnshire) ℳ	55	29	46·6	34·7	40·9	+ 3·3	13	31	7	0·78	+ 0·33	17·0	—	33	—
3. ENGLAND, E.	Hillington ℳ	54	26	45·5	33·9	39·9	+ 2·1	10	32	6	0·82	+ 0·26	14·6	+ 5·2	28	+ 10
	Yarmouth ℳ	53	31	46·4	36·0	41·4	+ 2·7	12	25	5	0·80	+ 0·24	*	*	*	*
	Geldeston ℳ	56	30	47·6	35·1	41·6	+ 2·7	16	30	5	0·68	+ 0·18	10·1	− 1·0	19	− 2
	Cambridge ℳ	56	31	46·9	34·9	41·1	+ 2·7	14	30	4	0·56	+ 0·16	11·3	+ 2·1	21	+ 4
	Felixstowe ℳ	52	33	46·4	38·5	42·6	+ 2·9	19	10	4	0·65	—	11·5	—	22	—
	Clacton-on-Sea ℳ	50	32	46·0	35·1	40·8	+ 1·0	11	29	4	0·60	—	13·2†	—	25†	—
	Rothamsted ℳ	55	30	48·1	34·1	41·4	+ 2·9	17	34	7	0·68	+ 0·12	11·1	+ 1·4	21	+ 3
	Shoeburyness ℳ	54	33	48·4	37·1	43·0	+ 3·1	28	14	3	0·47	+ 0·07	*	*	*	*
4. MIDLAND COUNTIES	Harrogate ℳ	54	25	45·8	35·1	40·7	+ 3·1	11	29	6	0·90	+ 0·19	12·8	—	25	—
	Bawtry (Hesley Hall) ℳ	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham ℳ	56	27	48·3	33·3	41·1	+ 2·5	18	37	5	0·65	+ 0·15	8·2	—	16	—
	Colly Weston (Stamford) ℳ	55	28	47·3	34·4	41·1	+ 3·2	15	32	6	0·68	+ 0·20	*	*	*	*
	Cheadle ℳ	55	27	43·8	34·6	39·4	+ 1·9	5	29	7	0·90	+ 0·18	*	*	*	*
	Birmingham (Edgbaston) ℳ	54	29	44·8	36·4	40·8	+ 1·8	8	23	5	0·73	+ 0·21	6·6	—	13	—
	Shrewsbury ℳ	58	27	48·4	35·1	42·0	+ 2·2	18	19	5	0·63	—	*	*	*	*
	Hereford ℳ	55	27	48·2	34·4	41·6	+ 2·4	17	33	7	0·61	+ 0·07	*	*	*	*
	Cirencester ℳ	55	26	48·2	31·6	40·2	+ 1·9	17	43	6	0·73	+ 0·09	7·2	− 2·2	14	− 4
	Oxford ℳ	56	30	48·6	36·4	42·7	+ 3·5	28	16	5	0·68	+ 0·20	7·8	− 1·7	15	− 3
5. ENGLAND, S.	London ℳ	55	31	48·6	36·6	42·8	+ 2·9	28	15	4	0·49	0·09	3·0‡	− 1·8‡	6‡	− 3‡
	Wisley (Surrey) ℳ	56	30	49·6	37·1	43·6	+ 2·8	32	14	5	0·55	—	6·7	—	12	—
	Swarraton (Alresford) ℳ	54	27	48·3	34·6	41·7	+ 3·1	18	32	6	0·75	+ 0·05	*	*	*	*
	Tunbridge Wells ℳ	53	31	48·2	36·0	42·3	+ 2·9	27	17	6	1·15	—	7·2	—	13	—
	Dungeness ℳ	53	32	49·4	37·6	43·7	+ 2·4	30	12	6	0·98	+ 0·50	5·1	—	9	—
	Hastings (St. Leonards) ℳ	53	32	48·0	39·0	43·7	+ 2·4	25	8	5	0·85	+ 0·18				
	Southampton ℳ	55	30	49·9	38·3	44·3	+ 3·1	32	10	6	1·06	+ 0·34	6·0	− 5·3	11	− 10
	Portland Bill ℳ	54	37	50·6	43·1	47·0	+ 4·3	35	0	7	0·75	—	*	*	*	*
	Shaftesbury ℳ	52	29	46·8	36·6	41·9	+ 4·2	13	24	7	0·89	+ 0·16	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ℳ	57	24	44·8	36·3	40·7	− 0·2	8	23	7	3·53	+ 1·39	*	*	*	*
	Glasgow ℳ	54	22	44·4	35·4	40·1	+ 1·1	7	26	7	1·73	+ 0·78	1·0	− 2·8	2	− 6
	Cally ℳ	52	20	44·6	32·9	39·0	− 0·2	7	35	7	1·32	+ 0·12	*	*	*	*
	Aspatria ℳ	52	24	44·1	35·4	39·9	0·0	6	26	6	2·26	—	3·3	—	7	—
	Douglas (Isle of Man) ℳ	53	28	48·0	37·0	42·7	+ 0·7	26	14	6	1·69	+ 0·62	17·2	+ 8·6	34	+ 17
7. ENGLAND, N.W.	Newton Rigg ℳ	53	16	43·3	32·7	38·2	− 0·3	4	35	6	0·76	—	12·4	—	25	—
	Stonyhurst ℳ	54	26	44·1	36·1	40·3	+ 1·7	6	24	6	1·50	+ 0·40	2·8	− 3·2	6	− 6
	Blackpool ℳ	53	27	45·8	35·7	41·0	+ 1·2	11	26	7	1·48	+ 0·75	10·3	+ 4·5	20	+ 9
	Manchester (Prestwich) ℳ	55	25	44·3	35·6	40·1	+ 1·3	6	25	7	1·93	+ 1·08	3·2	—	6	—
	Liverpool Obsy. (Bidston) ℳ	56	31	47·9	37·1	42·7	+ 2·2	25	14	5	1·21	+ 0·61	12·4	—	24	—
	Chester (Hawarden Bridge) ℳ	59	30	49·6	36·9	43·5	+ 2·0	32	14	5	0·90	—	*	*	*	*
	Llandudno ℳ	59	33	48·9	39·8	44·5	+ 2·0	27	6	5	1·17	+ 0·48	9·1	+ 1·1	18	+ 2
	Holyhead ℳ	53	35	48·7	40·7	44·9	+ 1·3	26	4	6	2·14	+ 1·15	*	*	*	*
	Bettws-y-Coed ℳ	54	30	47·6	37·4	42·7	+ 0·4	24	13	7	2·39	—	4·4	—	9	—
8. ENGLAND, S.W.	Llangammarch Wells ℳ	53	26	47·1	33·9	40·8	+ 2·1	14	34	7	1·20	—	3·3	—	6	—
	Pembroke ℳ	54	39	51·4	43·7	47·7	+ 3·2	40	0	7	1·14	+ 0·20	10·3	+ 0·2	19	0
	Cardiff ℳ	55	27	49·3	33·6	41·8	+ 0·3	20	37	7	1·06	—	*	*	*	*
	Clifton ℳ	56	30	48·6	37·4	43·2	+ 3·0	28	13	6	0·81	+ 0·05	*	*	*	*
	Bath ℳ	56	28	50·1	35·0	42·9	+ 2·8	36	20	5	0·70	+ 0·03	5·4	—	10	—
	Arlington (N. Devon) ℳ	59	31	49·7	38·6	44·4	+ 3·7	31	10	7	1·57	+ 0·18	*	*	*	*
	Cullompton ℳ	55	30	49·9	37·5	44·0	+ 4·2	33	13	6	0·91	+ 0·06	4·1	− 4·8	8	− 9
	Falmouth ℳ	55	37	51·3	43·1	47·4	+ 2·4	38	0	6	1·52	+ 0·25	13·1	+ 0·4	24	+ 1
	Plymouth ℳ	54	33	51·3	42·4	47·0	+ 3·5	35	0	6	1·32	+ 0·38	11·5	− 0·1	21	0
9. IRELAND, N.	Malin Head ℳ	—	31	—	37·4	—	—	—	—	7	0·70	− 0·06	*	*	*	*
	Edenfel (Omagh) ℳ	53	26	45·4	31·9	38·9	+ 0·7	10	39	7	1·35	+ 0·49	*	*	*	*
	Blacksod Point ℳ	54	36	49·0	40·1	44·7	+ 1·2	27	5	7	1·67	+ 0·30	*	*	*	*
	Markree Castle ℳ	55	30	46·4	35·8	41·3	+ 1·5	12	26	7	1·48	+ 0·52	6·6	− 1·1	13	− 2
	Armagh ℳ	56	26	45·7	35·0	40·6	+ 1·5	10	29	6	1·17	+ 0·50	11·2	+ 2·8	22	+ 6
	Donaghadee ℳ	53	28	47·9	34·7	41·6	0·0	17	32	6	1·27	+ 0·60	*	*	*	*
10. IRELAND, S.	Dublin ℳ	59	31	49·6	38·9	44·5	+ 2·6	31	9	6	0·51	− 0·03	11·0	− 1·2	21	− 2
	Birr Castle ℳ	57	23	49·9	31·7	41·2	+ 1·0	22	44	7	0·98	+ 0·25	5·7	− 4·6	11	− 9
	Kilkenny ℳ	55	27	49·7	35·4	42·8	+ 1·6	33	18	4	0·55	− 0·21	*	*	*	*
	Waterford ℳ	53	30	50·0	37·3	43·9	+ 2·2	33	13	5	0·86	− 0·15	*	*	*	*
	Roche's Point ℳ	53	33	50·6	39·6	45·3	+ 0·7	33	7	7	0·81	− 0·42	*	*	*	*
	Valencia ℳ	55	34	51·7	40·4	46·3	+ 0·8	37	4	7	2·19	+ 0·76	5·1	− 4·6	10	− 9
	Killarney ℳ	55	29	49·1	38·4	44·0	+ 0·2	29	10	7	1·25	− 0·41	*	*	*	*
	Foynes ℳ	57	30	50·8	37·4	44·4	+ 2·0	36	13	6	1·10	+ 0·05	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's) ℳ	55	41	52·4	43·7	48·2	+ 0·7	43	0	6	0·78	− 0·17	14·4	+ 1·1	26	+ 2
	Jersey ℳ	58	40	52·4	44·7	48·7	+ 4·2	47	0	6	1·49	+ 0·61	6·5	− 7·8	12	− 14

Information for Stations marked ℳ is supplied by the Royal Meteorological Society, and that for Stations marked $ is supplied by the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

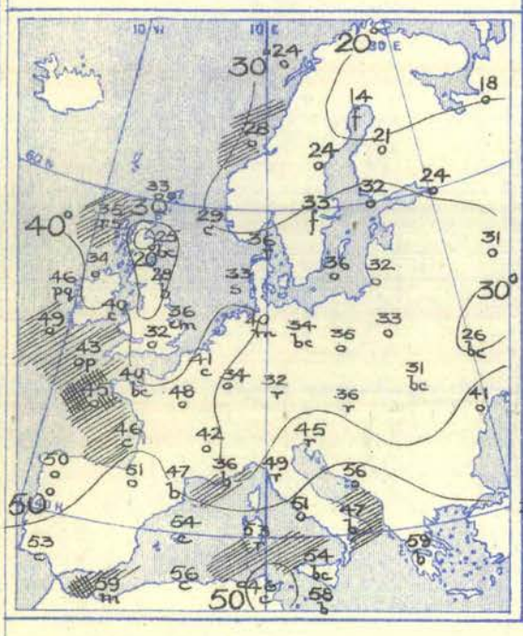
† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 33 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

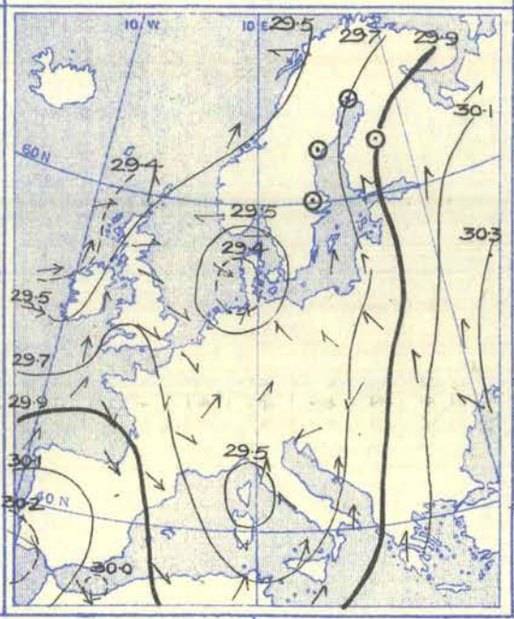
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 11th December, 1904.

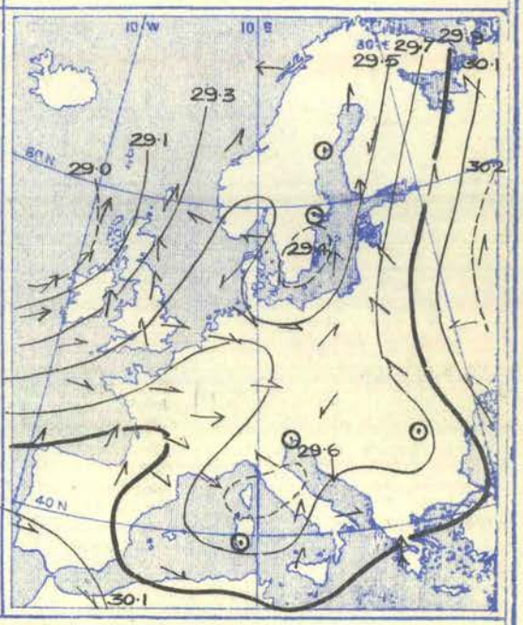
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast very generally, but fair or fine in some parts of Great Britain. Showers or steady rain falling at some of our western stations and in various places over the southern half of the Continent, sleet in the Hebrides, and snow at Fanö. Rain becoming very general later over our Islands and the western countries of the Continent and considerable amounts falling in Italy.

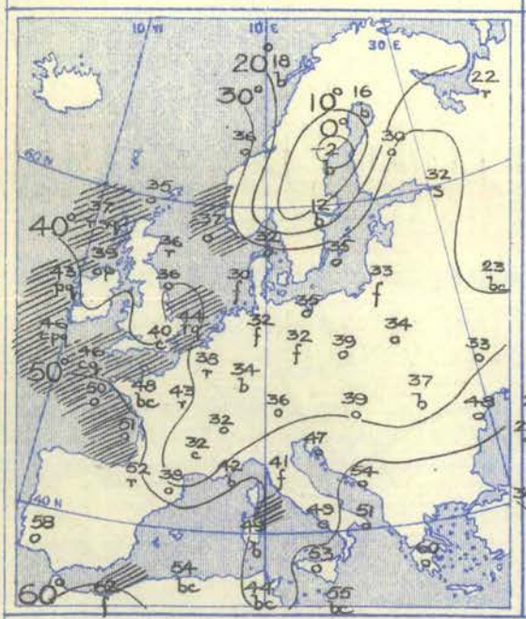
Temperature fallen over these Islands and their neighbourhood, risen over central and northern Europe. Morning readings highest, 59° at Athens and Nemours, 58° at Malta, 56° at Lésina, and 51° at Biarritz. Lowest, (1) 14° at Haparanda, 18° at Archangel, 24° at St. Petersburg, (2) 18° at Nairn, 23° at Leith, 25° at Aberdeen, and 28° at Shields and Nottingham, (3) 36° at Nice. Maxima during day touching 40° at some Scotch stations, 50° on our south-west coasts and in the south and west of France, and exceeding 60° in the far south of Europe.

Wind at 8 a.m. circulating cyclonically but with no great force around Denmark and also around Corsica. Southerly to South-Westerly over the west and north of our Islands, and moderate to fresh or strong in force. Latter current extending throughout this country, France, and the Netherlands by evening and increasing somewhat in strength. Not much change elsewhere.

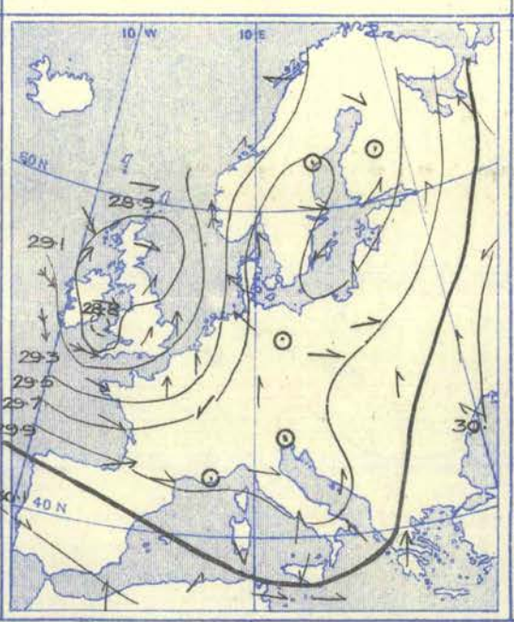
Barometer at a.m. ranging from 30·3 ins. in the south-east of Russia and 30·2 ins. in the south of Spain to less than 29·5 ins. in a depression centred near Elba, to below 29·4 ins. in another over Denmark and in a third disturbance off our north-west coasts. Low pressure systems all moving eastwards later and barometer falling to 29·0 ins. in the north-west of Ireland. A small and ill-defined secondary travelling eastwards along the English Channel.

Monday, 12th December, 1904.

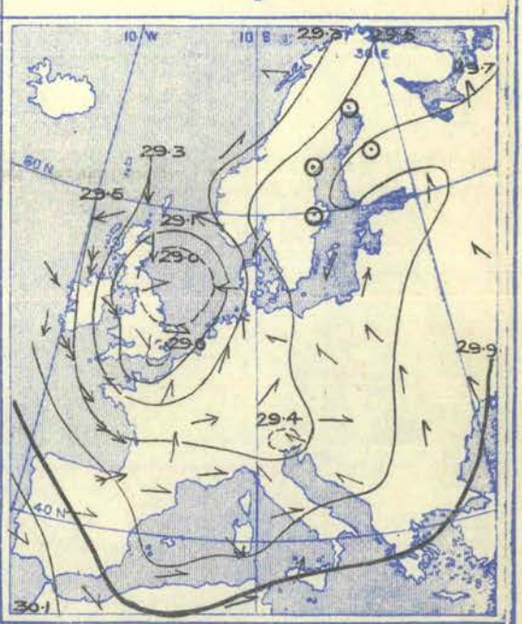
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in the north of Scandinavia and in a few other localities, but cloudy or overcast over our area generally, with snow or sleet in Scotland, and rain over the western and south-western countries of the Continent, and here and there in the south of Europe. Heavy or considerable amounts of sleet or snow experienced later in many parts of Scotland, and of rain over England, Ireland, and in most Continental regions.

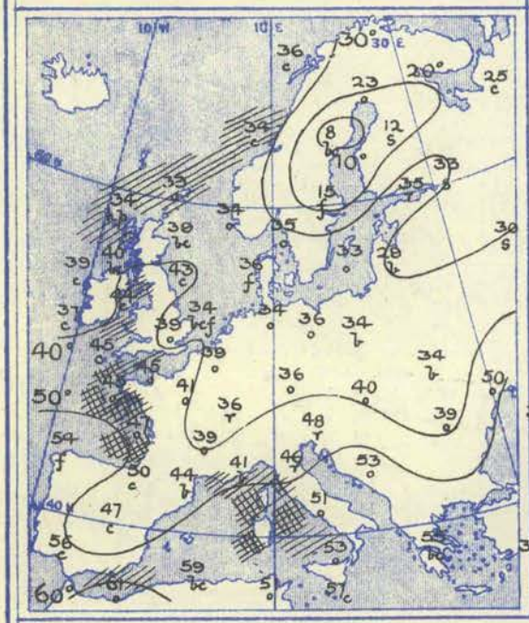
Temperature risen quickly over Great Britain. Morning readings highest, 62° at Nemours, 60° at Athens, 58° at Lisbon, and 54° at Biarritz. Lowest, (1) −2° at Hernösand, +8° at Karlstad, (2) 23° at Moscow, 33° to 37° in Scotland, (3) 32° at Belfort and Lyons. Rising later to 70° at Nemours, 64° at San Fernando, 63° in Greece, 60° at Palermo, and to 50° or a little higher in Italy, the Riviera, and on our south-west coasts. Severe frost continuing in the north-east and north of Europe.

Wind at 8 a.m. showing an extensive cyclonic circulation around Great Britain, the Northerly current blowing a gale in the west of Ireland, and that from West a strong breeze or slight gale over France and the Channel. A fresh gale from South-South-East prevailing in the south-west of Norway. Northerly gales extending to Wales, Scotland, and the west of England by evening, and a strong to moderate North-West gale blowing over the English Channel.

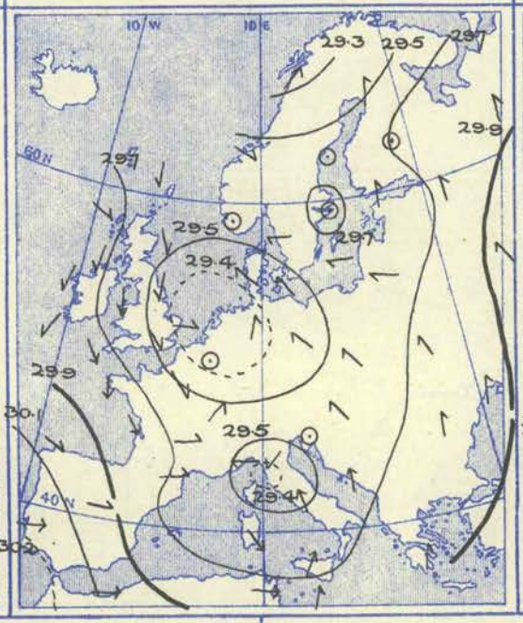
Barometer at 8 a.m. highest, 30·2 ins. and upwards over the south-east of Russia. Lowest, 28·8 ins. at Pembroke and below 28·9 ins. over Great Britain generally. Depression moving eastwards during day, and a very quick baric rise in Ireland and west of Scotland producing a very steep gradient for northerly winds over the west and north of our Islands. High pressure over Russia giving way or receding eastwards.

Tuesday, 13th December, 1904.

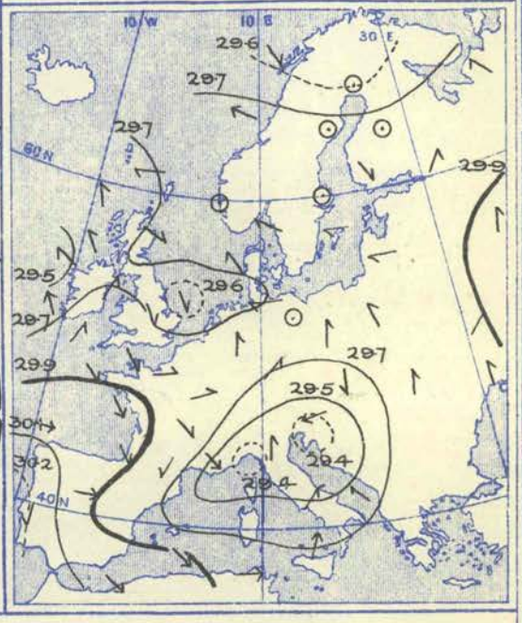
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at a.m. cloudy or overcast in nearly all places, with snow in several parts of Russia and Finland, hail showers in the Hebrides, and rain at Aix-la-Chapelle, Oporto, Belfort, and at some Italian stations. Rain experienced during the ensuing twenty-four hours over the United Kingdom and most parts of southern Europe and Algeria—largest amounts, 0·5 in. at Lorient and Naples, 0·6 in. at Florence, 1·0 in. at Bilbao, and 2·0 ins. at La Calle.

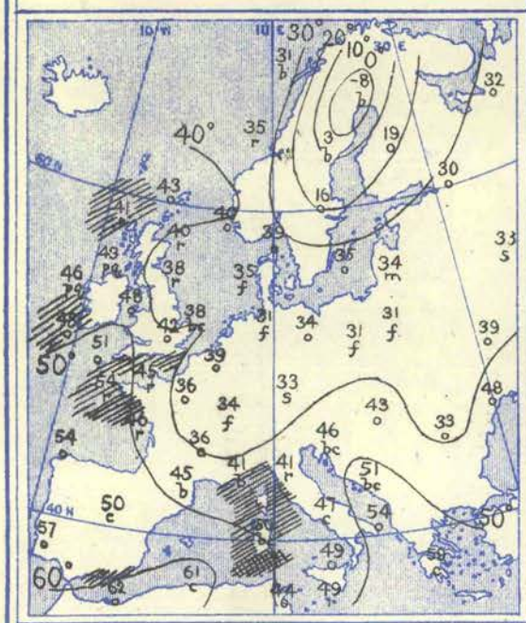
Temperature changed irregularly, but fallen in most regions. Morning readings highest, 60° at Oran, 58° at Lisbon, 57° at Malta, 55° at Athens, and 53° at Lesina. Lowest, (1) 8° at Hernösand, 12° at Kuopio, 15° at Stockholm, (2) 27° at Cracow, (3) 30° at Parsonstown, (4) 36° at Limoges, 39° at Cape Sicié. Frost continuing all day in the far north-east and north, but thermometer rising to 50° or above on our own south-west coasts, many parts of France and southern Europe, and to above 60° in places. Highest reading, 68° at Nemours.

Wind at 8 a.m. showing two cyclonic circulations of fresh or strong winds—one over our Islands and the nearer countries of the Continent, and the other over Italy and its vicinity. Wind backing to South or South-East on our western coasts by evening and a great reduction taking place in the force over our Islands. Little change occurring elsewhere.

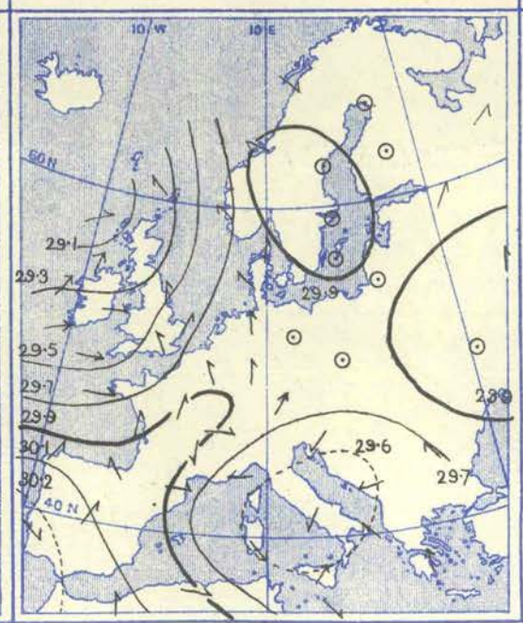
Barometer risen very quickly over our Islands. Morning readings highest, above 30·2 ins. on the south-west coast of Spain. Lowest, 29·4 ins. and less in depressions situated respectively over Italy and the southern half of the North Sea, and below 29·3 ins. in another system in the extreme north of Norway. Italian disturbance becoming complex by evening, that near our coasts partially dispersing, and that in the far north travelling away out of our area. A fresh system approaching Ireland quickly from the westward.

Wednesday, 14th December, 1904.

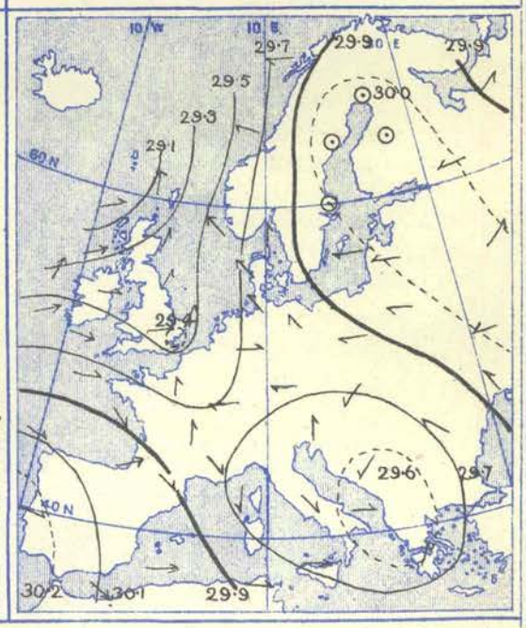
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. very rainy in the western and also in some of the southern countries. Snow falling at Munich and Moscow. Sky clear in several parts of Finland and Scandinavia. A good deal of fog prevailing in Denmark, Germany, and Hungary. Rain falling later in all except the central and northern regions of Europe—about half an inch in Greece, rather more in the west and north of France, and 1·5 in. at La Calle.

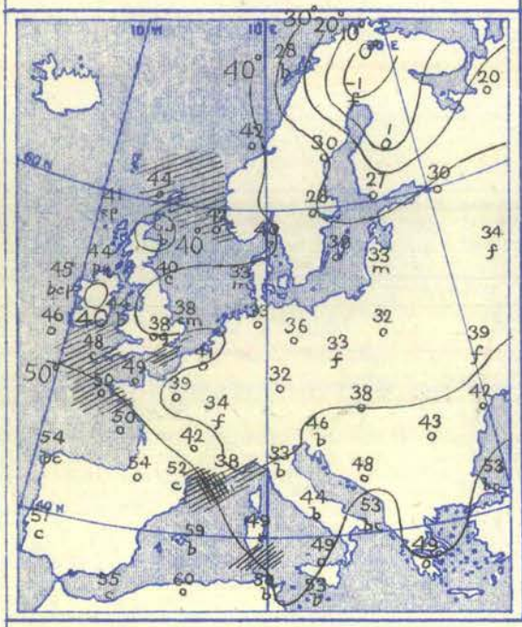
Temperature changed irregularly; fallen rapidly in the north of Sweden. Morning readings highest, 63° at Oran, 59° at Athens, 57° at Lisbon, 54° at Bilbao, and 51° at Scilly. Lowest, (1) −8° at Haparanda, +3° at Hernösand, 16° at Stockholm, (2) 32° at Turin, 36° at Lyons, 40° at Cape Sicié, (3) 36° to 38° over the Midlands and east of England. Maxima during day much below 32° in the far north and north-east, about 50° in several parts of our Islands, France, and the north of Italy, and above 60° in Spain and Algeria. Highest value, 68° at Nemours.

Wind in morning fresh from the Westward at our south-western stations and in Brittany and from South-West or South over these Islands generally. Light anticyclonic winds prevailing over the north and east of Europe, and a cyclonic circulation, light, to a moderate gale, over Italy and the central and western parts of the Mediterranean. Veering somewhat and moderating in most parts of the United Kingdom during day, but increasing to a gale from South-East in the south-west of Norway. Moderating over southern Europe.

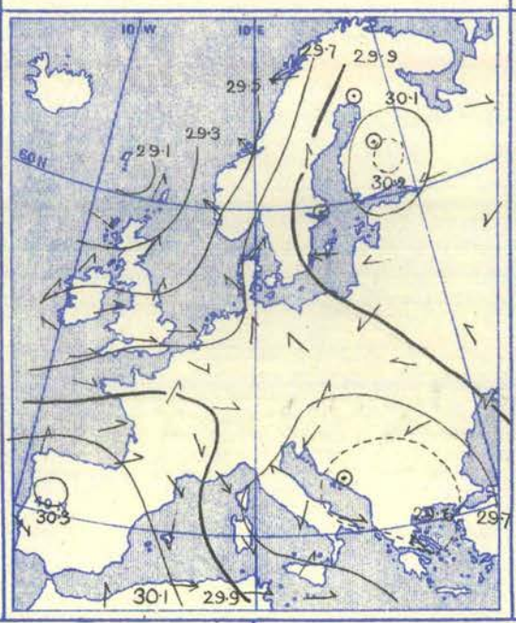
Barometer at 8 a.m. ranging from above 30·2 ins. in the south-west of the Iberian Peninsula and above 29·9 ins. over the major portions of Russia and Scandinavia, to below 29·6 ins. in a depression of considerable size centred over Italy, and to less than 29·1 ins. in another system off our north-west coasts. Italian depression travelling eastwards later, and that off our north-west coasts moving north-north-eastwards. A small secondary passing eastwards over our southern counties.

Thursday, 15th December, 1904.

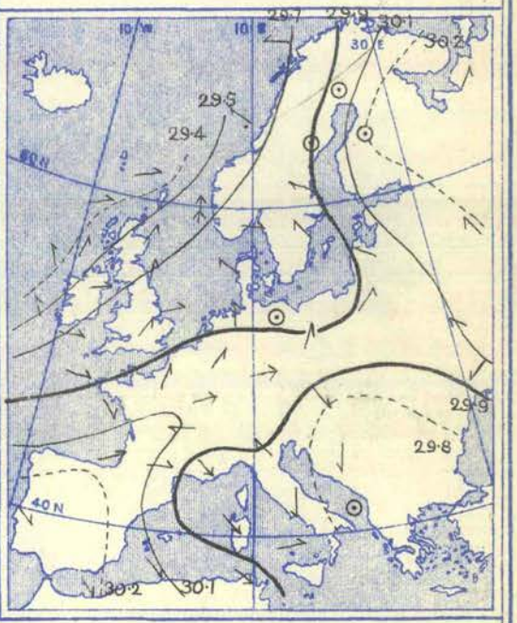
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine in several parts of this country and southern Europe, but cloudy or overcast over our area generally. Showery on our extreme north-west coasts, and rainy at Bilbao. Lorient, in Denmark, and at some of the most southern stations. Rain becoming general later over the United Kingdom and its immediate vicinity, and rain or snow falling in Scandinavia.

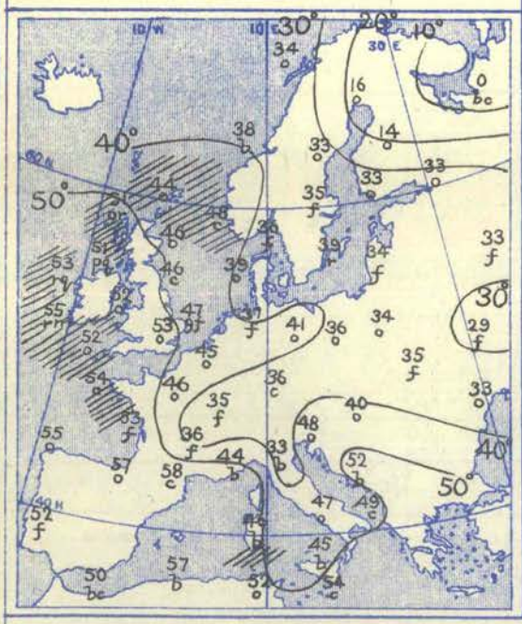
Temperature risen in most places—quickly in Sweden. Readings in morning highest, 60° at Algiers, 59° at Palma, and above 50° at some other stations. Lowest, (1) −1° at Haparanda, +1° at Kuopio, 20° at Archangel, (2) 32° at Cracow and Munich, 33° at Frankfurt and Warsaw, (3) 33° at Rome and Florence, (4) a little below 40° at Parsonstown and in many parts of England. Rising to above 50° in nearly all parts of our Islands during the ensuing twenty-four hours, and also over southern Europe, and to above 60° in Algeria.

Wind at 8 a.m. light, anticyclonic in the north-east and south-west of our area. Light to fresh from the South-Westward over the United Kingdom, and from South-East on the eastern shores of the North Sea; a South-Easterly gale blowing at Skudesnaes. An extensive cyclonic circulation prevailing over south-eastern Europe and the Mediterranean. Not strong generally, but a moderate North-Westerly gale reported at Cape Sicié. Little change later excepting a backing to South-South-East in the west of Ireland.

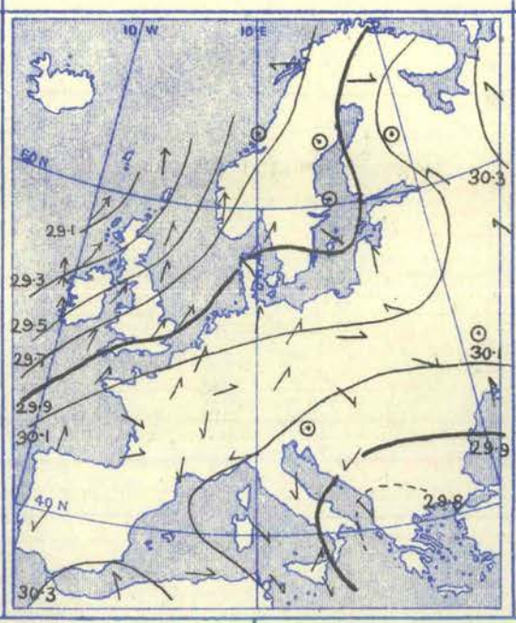
Barometer in morning ranging from above 30·1 ins. over the Spanish Peninsula and Finland, to below 29·6 ins. in a large depression covering the western part of Turkey and the adjacent territory, and to below 29·1 ins. in another system having its centre to the northward of the Shetlands. Latter minimum travelling away north-north-eastwards during day, but a fresh baric fall in Ireland announcing the arrival of a new disturbance from the Atlantic.

Friday, 16th December, 1904.

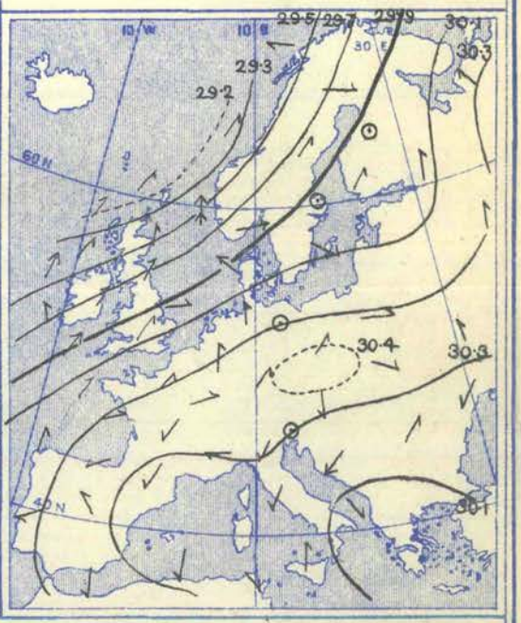
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fine in many southern localities, but dull or very cloudy over our area as a whole. Fog prevailing on the coast of Portugal and at some French and Danish stations, and rain at La Calle, Le Mans, on our west, north-west, and south-east coasts, and in Gothland. An inch of rain falling later at Valencia Island, and smaller amounts of rain or snow over Scandinavia, Denmark, and Germany.

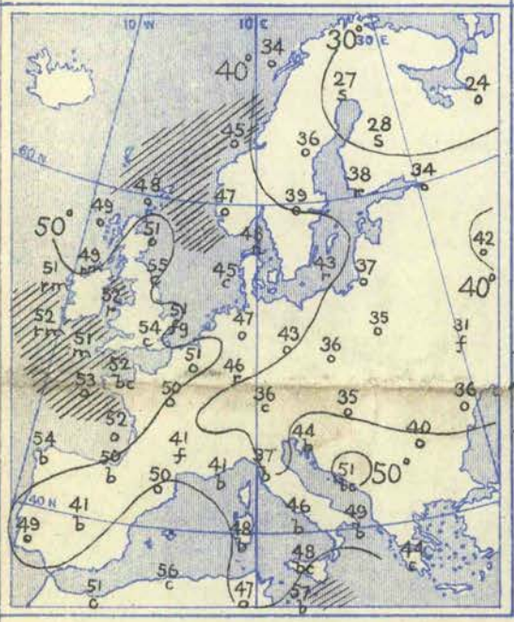
Temperature risen quickly over our Islands and their neighbourhood. Morning values highest, 58° at La Calle and Perpignan, 57° at Biarritz, 55° at Valencia and Leith, and 51° at Stornoway. Lowest, (1) 0° at Archangel, 13° at Uleaborg, 14° at Kuopio, (2) 27° at Kharkov, 29° at Kiev, (3) 33° at Florence and Turin. Rising during day to 56° or 57° in many parts of our Islands, to 58° at Jersey, and to above 60° at some stations in the far south of Europe and in Algeria. Highest value, 68° at Algiers.

Wind at 8 a.m. Southerly, strong to a gale, in Ireland and fresh or strong from South-West or South over our Islands generally. An extensive cyclonic circulation still prevailing over the south-east of Europe. Little change later as a whole, but Southerly wind increasing to a strong gale on the south-west coast of Norway.

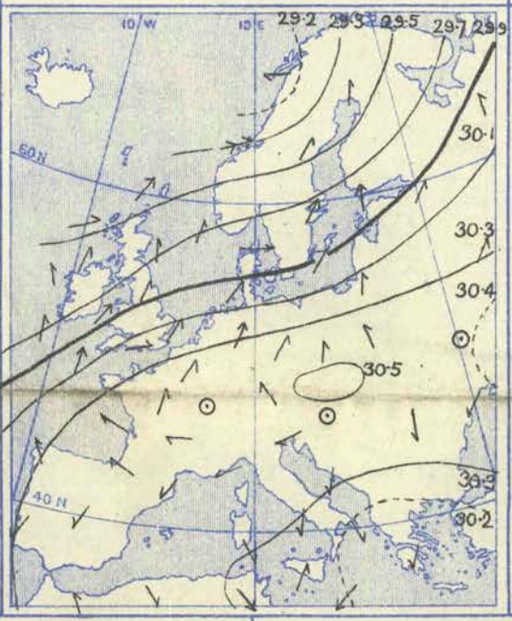
Barometer highest, 30·3 ins. over Morocco and the adjacent portion of Algeria and also in the north of Russia. Lowest, 29·1 ins. and less off the north-west of our Islands, and relatively low over the Balkan Peninsula. Barometer rising and becoming highest over central Europe by evening, and a considerable rise also taking place in the south-eastern countries. Depression off our north-west coasts moving north-eastwards.

Saturday, 17th December, 1904.

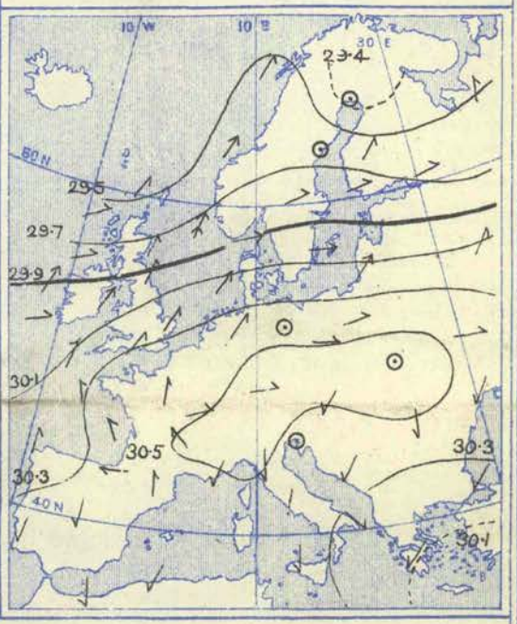
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in most parts of southern Europe, cloudy or overcast in nearly all other regions, with rain in the west of Ireland, Holyhead, and Leith, as well as at Frankfort, Prague, Wisby, and over the Gulf of Finland, and snow at some stations further north. Rain or snow falling later in Russia and a few other parts of northern Europe, and rain over all our own more northern and western districts.

Temperature risen in most places, but fallen in the Spanish Peninsula and the south of France, risen generally elsewhere. Morning readings highest, 57° at Malta, 55° on our north-east coasts, 54° in London, and 51° at Nairn and Aberdeen. Lowest, 24° at Archangel, and below 32° at a few other northern stations, 33° at Vienna, 36° at Turin, 37° at Florence, and 41° at Lyons and Madrid. Rising later to 58° at Leith and to 55° or 56° in many other parts of our Islands. Maxima above 60° at some Spanish and Mediterranean stations; highest value, 66° at Algiers.

Wind at 8 a.m. light and anticyclonic over all the central and south-western parts of our area; fresh or strong from South or South-West in nearly all the more northern regions, but Easterly at Bodö. A fresh gale prevailing at Christiansund and a moderade gale on some parts of our western coasts. Veering to South-West at Bodö by evening, but little change occurring as a whole.

Barometer at 8 a.m. highest, 30·4 ins. to 30·5 ins. in a long anticyclonic band extending from the west of Algeria across central Europe to the south-west of Russia. Lowest, less than 29·2 ins. in a depression centred off the north-west of Norway. Latter system travelling quickly eastwards during day, and a considerable increase of pressure occurring except in the extreme north-east of our area.

IV.—GENERAL NOTES, etc.

During the first half of the period some rather deep depressions were shown over our Islands or the northern countries of the Continent, while other systems of considerable importance were found over Italy or its neighbourhood. The winds attending the northern disturbances were often strong in force and sometimes rose to a fresh to strong gale, especially over Scandinavia, the North Sea, and the United Kingdom. In the southern regions the wind was also strong or fresh, but gale force was only rarely reported. Later in the week pressure became highest over the central countries and the depressions in the south moved away to the most south-eastern part of Europe, while large disturbances over the Atlantic skirted our west and north-west coasts as they travelled northwards or north-eastwards. The Southerly and South-Westerly wind which set in over our Islands and north-western Europe generally as a consequence of this change in the distribution of pressure blew freshly or strongly in most districts and caused a very marked rise of the thermometer, which, over the United Kingdom, became high for the time of year. A good deal of rain was experienced over the southern regions of Europe until towards the end of the week, and frequent falls of rain or snow in the north. Hard frost prevailed with scarcely any interruption in the extreme north and north-east of our area, the temperature in Sweden often falling to below zero.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 296.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	3·1	− 2·8	7	− 7
STRATHPEFFER SPA	3·9	− 3·3	9	− 7
CRATHES	7·0	—	15	—
BALRUDDERY	8·0	—	17	—
EDINBURGH	7·9	+ 2·8	17	+ 6
COCKLE PARK	14·1	—	29	—
NEWCASTLE-on-TYNE	8·3	—	17	—
YORK	8·6	+ 2·9	17	+ 6
SKEGNESS	17·2	—	33	—
CROMER	—	—	—	—
LOWESTOFT	11·7	—	23	—
DUNMOW	12·0	—	23	—
SHEFFIELD	9·2	—	19	—
WORKSOP	10·2	+ 3·2	20	+ 6
THURCASTON	10·5	+ 3·4	20	+ 7
MARGATE	9·3	− 1·3	17	− 2
BROADSTAIRS	—	—	—	—
RAMSGATE	11·1	—	21	—
EASTBOURNE	7·1	− 5·4	13	− 10
BRIGHTON	5·3	− 6·3	10	− 12
WORTHING	6·5	—	12	—
BOGNOR	9·9†	—	18†	—
WESTBOURNE	9·7†	− 1·8	18†	− 3
VENTNOR HOSPITAL	7·4	− 3·9	14	− 7
BOURNEMOUTH	7·4	—	[illegible]	—
MARLBOROUGH	2·4	− 5·9	4	− 11
SOUTHPORT	11·9	—	23	—
RHYL	6·5	—	13	—
ABERDOVEY	4·0†	—	8†	—
TENBY	6·4	− 3·6	12	− 7
TORQUAY	15·1	+ 3·1	28	+ 6
NEWQUAY	9·6	− 1·9	18	− 3
GUERNSEY	3·4†	− 7·0	6†	− 13

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 39, page 230	Fulbeck	—	—	—	45·3	53·3	+ 1·2	79	—	—	—	—	—	—	—	—
" " "	Llandudno	—	—	60·5	—	54·7	+ 0·4	89	—	—	—	—	—	—	—	—
No. 39, page 234	Worksop	—	—	—	—	—	—	—	—	—	—	—	25·9	+2·1	—	+ 3
" " "	Newquay	—	—	—	—	—	—	—	—	—	—	—	36·9	+5·2	45	+ 6
No. 40, page 236	Scarborough	—	—	—	44·3	50·9	+ 0·3	62	—	—	—	—	—	—	—	—
" " "	Hillington	—	32	—	40·7	48·2	− 2·6	—	4	—	—	—	—	—	—	—

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TWENTY-SEVENTH YEAR. *Vol. XXI. (New Series.)* No. 51. FIFTY-FIRST WEEK, ENDING SATURDAY, DECEMBER 24TH, 1904. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 302.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	30	45·5	38·9	42·3	5 above	15	+ 8	9	−22	2069	+ 47	709	− 61
	1. SCOTLAND, EAST	51	26	42·0	33·5	37·9	1 above	0	− 7	29	− 9	2245	−128	857	− 6
	2. ENGLAND, N.E.	54	18	39·0	28·8	34·1	4 below	0	−10	55	+23	2782	+177	660	− 21
	3. ENGLAND, EAST	52	18	38·8	27·9	33·6	5 below	0	−10	59	+23	3084	+ 66	621	−132
	4. MIDLAND COUNTIES	55	18	36·8	27·7	32·4	6 below	0	−10	67	+30	2825	−130	774	− 14
	5. ENGLAND, SOUTH	54	22	42·5	34·5	38·6	1 below	1	−13	27	0	3201	−145	481	− 64
Principal Grazing Districts.	6. SCOTLAND, WEST	50	21	41·6	33·6	37·8	2 below	0	−12	29	+ 5	2497	− 56	563	− 15
	7. ENGLAND, N.W.	53	18	37·9	28·1	33·2	7 below	0	−12	62	+37	2744	− 65	561	+ 21
	8. ENGLAND, S.W.	54	13	43·0	35·1	39·1	2 below	3	−17	25	+ 7	3165	− 3	381	− 25
	9. IRELAND, NORTH	51	25	44·4	36·6	40·7	0 (average)	7	− 7	22	− 1	2562	−147	466	− 37
	10. IRELAND SOUTH	57	28	48·4	39·8	44·3	2 above	25	+ 3	6	−11	3116	− 7	329	− 42
	— CHANNEL ISLANDS	55	32	49·8	42·7	46·4	1 above	31	0	0	− 5	3827	+ 61	89	− 55

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 302.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	2	10 less	248	+23	50·8	+ 2·8	3	− 2	7	− 5	1172	+ 56	27	+ 1
	1. SCOTLAND, EAST	2	less than half	6 less	197	+ 5	25·5	− 5·0	9	− 1	19	− 1	1277	− 29	29	− 1
	2. ENGLAND, N.E.	0	less than half	5 less	161	−16	20·9	− 3·9	10	− 2	21	− 3	1442*	− 2	33	0
	3. ENGLAND, EAST	1	1	4 less	159	−20	20·1	− 3·9	13	0	26	0	1646	+ 34	38	+ 1
	4. MIDLAND COUNTIES	1	less than half	6 less	170	+ 1	23·5	− 3·6	6	− 4	11	− 7	1378	+ 35	32	+ 1
	5. ENGLAND, SOUTH	1	1	6 less	174	+ 7	26·4	− 1·4	16	+ 5	29	+ 9	1618	+ 37	37	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	1	less than half	13 less	203	+ 4	47·5	− 2·1	6	− 2	12	− 3	1319*	− 33	30	− 1
	7. ENGLAND, N.W.	0	less than half	8 less	189	+ 1	31·1	− 3·4	11	− 1	22	− 1	1436	+133	33	+ 3
	8. ENGLAND, S.W.	1	1	9 less	192	+ 1	37·3	− 0·4	11	+ 1	19	+ 2	1536	− 87	35	− 2
	9. IRELAND, NORTH	1	less than half	9 less	246	+21	38·2	+ 2·2	5	− 3	11	− 5	1238	− 24	28	− 1
	10. IRELAND, SOUTH	1	1	10 less	213	+10	38·9	− 1·1	9	− 2	17	− 4	1351	− 95	31	− 2
	— CHANNEL ISLANDS	1	less than half	9 less	223	+27	35·7	+ 3·1	17	+ 5	31	+ 8	1819	− 58	42	− 1

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather during this week was characterised by a dense fog or thick mist that came over the greater part of England early in the period and continued with little intermission until its close. At many of the English coast stations, however, especially in the south-east, the days were very sunny until nearly the end of the period. In Ireland and Scotland there was little or no fog, but the sky was generally very cloudy or overcast.

Temperature varied greatly In England it was below the mean, the deficit ranging from only 1° in England S. to 4° or 5° in England N.E., 6° in the Midland Counties, and to 7° in England N.W. In the north and east of Scotland, the south of Ireland, and the Channel Islands it was above the mean—as much as 5° in Scotland N., in Ireland N. just equal to it, and in Scotland W. 2° below it. The highest of the maxima were recorded very early in the week, and ranged from 57° in Ireland S. to 50° in Scotland W. Later in the period the daily maxima over the centre and north of England were often below 32°. The lowest of the minima, which occurred during the latter half of the time, ranged from 13° in England S.W. (at Llangammarch Wells), 18° in England N.E., E., N.W., and the Midland Counties, to 28° in Ireland S., and to 32° in the Channel Islands.

Rainfall was less than the mean in all districts; in most parts of the Kingdom the fall was scarcely appreciable.

Bright Sunshine exceeded the mean in the south-west of England, and also in the Channel Islands, but was generally deficient elsewhere. The percentage of the possible amount was greatest (31) in the Channel Islands, and least (7) in Scotland N.

Barometer and Wind. Soon after the commencement of the week a large anticyclone with readings above 30·6 ins. extended over England from the Continent and this system continued, with some modifications in form and a gradual loss of intensity, to dominate our Islands throughout the remainder of the period. The winds were consequently very light and rather variable, but as a whole they were Easterly in the south, South-Easterly to Southerly in the west, and South-Westerly and Westerly in the northern districts.

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Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42°	Below 42°							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ℌ	48	34	44·3	40·7	42·6	+ 3·2	10	4	6	0·49	− 0·51	*	*	*	*
	Stornoway ℌ	50	37	48·0	41·1	44·7	+ 5·6	23	3	6	0·31	− 0·94	1·9	− 3·3	4	− 8
	Wick ℌ	50	37	46·0	38·3	42·3	+ 4·2	18	10	2	0·05	− 0·63	*	*	*	*
	Lairg ℌ	50	30	43·5	35·9	39·9	+ 5·3	4	24	5	0·19	− 0·71	*	*	*	*
	Glencarron ℌ	51	36	45·7	39·3	42·6	+ 6·0	16	8	5	0·20	− 2·08	*	*	*	*
	Fort Augustus ℌ	47	34	45·2	37·8	41·7	+ 3·8	9	18	2	0·08	− 1·11	1·4	− 0·6	3	− 1
1. SCOTLAND, E.	Nairn ℌ	48	35	45·3	38·4	42·0	+ 4·5	9	10	2	0·06	− 0·41	*	*	*	*
	Aberdeen ℌ	44	30	41·3	33·1	37·4	− 0·4	0	32	2	0·05	− 0·63	4·9	− 3·8	11	− 8
	Braemar ℌ	44	26	39·0	29·9	34·6	+ 0·4	0	52	1	0·05	− 0·68	*	*	*	*
	Ochtertyre ℌ	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Leith ℌ	46	31	42·7	35·7	39·3	+ 0·2	2	23	1	0·01	− 0·41	*	*	*	*
	Marchmont ℌ	51	26	41·9	30·4	36·4	+ 0·1	0	39	2	0·04	− 0·63	11·3	+ 3·9	24	+ 8
2. ENGLAND, N.E.	Alnwick Castle ℌ	43	23	38·5	29·2	34·0	− 4·1	0	56	0	0·00	− 0·65	*	*	*	*
	Durham ℌ	54	18	36·3	25·6	31·2	− 5·9	0	76	0	0·02 ϟ	− 0·55	6·6	− 2·9	14	− 6
	Shields ℌ	47	25	38·4	30·4	34·6	− 4·2	0	52	0	0·00	− 0·50	*	*	*	*
	Scarborough ℳ	53	26	47·6	30·6	39·4	+ 0·6	16	46	0	0·02 ϟ	− 0·58	13·4	—	27	—
	Spurn Head ℌ	47	27	39·3	32·1	35·8	− 3·2	0	43	0	0·00	− 0·44	*	*	*	*
	Lincoln ℌ	52	21	36·0	27·0	31·7	− 6·0	0	72	2	0·07	− 0·36	*	*	*	*
	Fulbeck (Lincolnshire) ℌ	54	22	37·1	26·7	32·1	− 4·8	0	69	0	0·00	− 0·43	9·4	—	18	—
3. ENGLAND, E.	Hillington ℳ	51	18	33·6	23·4	28·7	− 8·5	0	93	1	0·07	− 0·47	7·3	− 1·9	14	− 4
	Yarmouth ℌ	50	24	40·6	30·4	35·7	− 2·2	0	44	2	0·05	− 0·49	*	*	*	*
	Geldeston ℌ	51	21	41·2	25·6	33·7	− 4·4	0	58	0	0·04 ϟ	− 0·42	17·6	+ 6·9	34	+ 13
	Cambridge ℌ	52	19	33·5	24·8	29·3	− 8·2	0	89	0	0·02 ϟ	− 0·38	6·6	− 3·7	13	− 7
	Felixstowe ℌ	51	25	41·8	27·6	35·0	− 3·4	0	49	1	0·04	—	23·4	—	44	—
	Clacton-on-Sea ℌ	50	26	42·1	33·6	38·0	− 1·2	0	31	2	0·04	—	24·5†	—	46†	—
	Rothamsted ℌ	52	20	36·4	27·8	32·3	− 5·3	0	68	1	0·06	− 0·48	8·6	− 1·0	16	− 2
	Shoeburyness ℌ	52	24	41·3	29·7	35·7	− 3·5	0	44	1	0·07	− 0·31	*	*	*	*
4. MIDLAND COUNTIES	Harrogate ℌ	49	18	39·9	25·5	33·0	− 3·9	0	63	1	0·03	− 0·67	12·6	—	25	—
	Bawtry (Hesley Hall) ℌ	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham ℌ	48	21	34·9	27·6	31·4	− 6·6	0	74	1	0·04	− 0·49	3·6	—	7	—
	Colly Weston (Stamford) ℌ	47	18	35·7	27·4	31·7	− 5·5	0	72	0	0·00	− 0·47	*	*	*	*
	Cheadle ℳ	51	19	36·2	28·6	31·6	− 5·3	0	73	0	0·00	− 0·70	*	*	*	*
	Birmingham (Edgbaston) ℌ	52	23	36·2	27·9	32·2	− 6·3	0	69	0	0·00	− 0·50	4·7	—	9	—
	Shrewsbury ℌ	55	25	38·5	27·7	33·3	− 5·7	0	61	0	0·00	—	*	*	*	*
	Hereford ℳ	49	21	37·1	29·6	33·5	− 5·2	0	60	2	0·05	− 0·49	*	*	*	*
	Cirencester ℌ	50	21	37·6	28·0	33·0	− 4·6	0	63	0	0·02 ϟ	− 0·62	4·7	− 4·6	9	− 9
	Oxford ℌ	52	23	34·7	28·7	31·8	− 6·8	0	71	1	0·03	− 0·44	4·6	− 4·8	9	− 9
5. ENGLAND, S.	London ℌ	54	29	38·9	32·7	35·9	− 3·3	0	43	1	0·03	− 0·45	2·0‡	− 2·6‡	4‡	− 5‡
	Wisley (Surrey) ℌ	54	22	36·7	30·3	33·6	− 6·3	0	59	1	0·07	—	3·5	—	7	—
	Swarraton (Alresford) ℳ	52	24	40·6	31·0	36·0	− 1·8	0	42	3	0·14	− 0·56	*	*	*	*
	Tunbridge Wells ℳ	52	27	42·4	31·4	37·1	− 1·6	1	39	0	0·04 ϟ	—	25·1	—	47	—
	Dungeness ℌ	53	26	45·7	39·0	42·5	+ 2·0	16	8	1	0·04	− 0·42	21·7	—	40	—
	Hastings (St. Leonards) ℌ	53	33	45·8	36·8	41·5	+ 1·0	11	22	1	0·03	− 0·62	24·3	+ 11·5	45	+ 21
	Southampton ℌ	54	27	43·1	32·5	38·0	− 2·6	3	35	0	0·03 ϟ	− 0·67	14·3	+ 3·4	27	+ 6
	Portland Bill ℌ	53	38	47·7	41·6	44·8	+ 2·3	21	1	1	0·02	—	*	*	*	*
	Shaftesbury ℳ	51	32	41·2	35·4	38·4	+ 1·4	0	25	1	0·07	− 0·64	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) ℌ	48	35	46·2	40·2	43·3	+ 2·8	17	5	2	0·08	− 2·05	*	*	*	*
	Glasgow ℌ	47	35	43·3	37·9	40·7	+ 2·1	4	16	1	0·01	− 0·93	3·1	− 0·6	7	− 1
	Cally ℌ	42	28	40·6	31·1	36·0	− 2·4	0	42	0	0·00	− 1·19	*	*	*	*
	Aspatria ℌ	48	21	36·2	27·0	31·3	− 7·4	0	71	0	0·00	—	8·7	—	18	—
	Douglas (Isle of Man) ℌ	50	25	41·9	31·6	37·0	− 4·4	0	35	0	0·01 ϟ	− 1·04	5·9	− 2·6	12	− 5
7. ENGLAND, N.W.	Newton Rigg ℌ	51	18	38·4	23·6	31·3	− 6·5	0	75	0	0·00	—	12·2	—	25	—
	Stonyhurst ℌ	52	22	35·7	25·4	30·8	− 7·3	0	78	0	0·00	− 1·07	5·9	+ 0·2	12	0
	Blackpool ℳ	50	22	35·3	26·9	31·3	− 7·9	0	75	0	0·02 ϟ	− 0·70	5·7	+ 0·1	11	0
	Manchester (Prestwich) ℌ	53	20	37·7	26·2	32·2	− 5·9	0	69	1	0·01	− 0·83	0·8	—	2	—
	Liverpool Obsy. (Bidston) ℌ	46	25	36·3	30·0	33·3	− 6·7	0	61	1	0·01	− 0·57	9·6	—	19	—
	Chester (Hawarden Bridge) ℌ	49	25	36·9	29·6	33·4	− 7·4	0	60	0	0·00	—	*	*	*	*
	Llandudno ℳ	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Holyhead ℌ	48	31	43·9	35·3	39·8	− 3·0	5	26	0	0·00	− 0·87	*	*	*	*
	Bettws-y-Coed ℌ	53	24	38·7	27·4	33·3	− 8·5	0	61	0	0·00	—	18·1	—	36	—
8. ENGLAND, S.W.	Llangammarch Wells ℌ	48	13	35·3	22·3	29·1	− 9·0	0	90	1	0·04	—	13·8	—	26	—
	Pembroke ℌ	50	32	44·3	38·7	41·6	− 2·3	6	14	1	0·02	− 0·91	7·0	− 3·0	13	− 6
	Cardiff ℌ	51	25	39·3	32·5	36·0	− 5·0	0	42	1	0·04	—	*	*	*	*
	Clifton ℌ	49	27	39·9	33·4	36·8	− 2·9	0	36	0	0·00	− 0·72	*	*	*	*
	Bath ℌ	52	28	39·3	33·1	36·3	− 3·2	0	40	0	0·00	− 0·67	4·0	—	8	—
	Arlington (N. Devon) ℌ	48	27	44·3	34·7	39·7	− 0·6	6	29	0	0·02 ϟ	− 1·33	*	*	*	*
	Cullompton ℳ	52	33	44·0	36·2	40·3	+ 1·0	6	23	1	0·02	− 0·82	6·5	− 2·1	12	− 4
	Falmouth ℌ	54	42	50·8	45·6	48·3	+ 3·8	44	0	2	0·30	− 0·95	13·2	+ 0·8	24	+ 1
	Plymouth ℌ	54	28	48·4	39·6	44·2	+ 1·4	25	7	1	0·01	− 0·93	17·8	+ 6·4	33	+ 12
9. IRELAND, N.	Malin Head ℌ	49	34	45·0	37·4	41·4	− 0·3	8	20	2	0·02	− 0·73	*	*	*	*
	Edenfel (Omagh) ℌ	46	30	41·9	35·4	38·8	+ 1·0	0	22	2	0·07	− 0·78	*	*	*	*
	Blacksod Point ℌ	51	34	47·9	39·9	44·1	+ 1·0	24	6	1	0·04	− 1·32	*	*	*	*
	Markree Castle ℌ	48	29	44·2	35·1	39·8	+ 0·4	6	27	1	0·01	− 0·94	4·9	− 2·8	10	− 6
	Armagh ℌ	49	25	43·5	34·1	39·0	+ 0·3	4	30	1	0·02	− 0·64	5·8	− 2·5	12	− 5
	Donaghadee ℌ	47	31	44·1	37·4	40·9	− 0·2	6	19	0	0·00	− 0·66	*	*	*	*
10. IRELAND, S.	Dublin ℌ	51	28	46·6	36·6	41·8	+ 0·2	13	24	0	0·01 ϟ	− 0·52	7·1	− 4·9	14	− 10
	Birr Castle ℌ	53	30	47·3	36·7	42·2	+ 2·5	24	15	2	0·02	− 0·70	5·5	− 4·7	11	− 9
	Kilkenny ℌ	50	30	45·6	38·3	42·1	+ 1·5	16	10	0	0·00	− 0·76	*	*	*	*
	Waterford ℌ	52	36	48·1	40·6	44·5	+ 3·3	23	4	2	0·11	− 0·92	*	*	*	*
	Roche's Point ℌ	51	37	48·6	43·1	46·0	+ 1·9	28	0	3	0·06	− 1·18	*	*	*	*
	Valencia ℌ	56	38	50·3	42·1	46·4	+ 1·1	31	0	0	0·00	− 1·43	13·8	+ 4·3	26	+ 8
	Killarney ℌ	57	36	52·2	41·4	47·0	+ 3·5	38	2	? 2	? 0·31	− 1·33	*	*	*	*
	Foynes ℌ	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's) ℌ	55	42	51·3	44·3	47·9	+ 0·9	41	0	2	0·02	− 0·92	12·6	− 0·2	23	0
	Jersey ℌ	55	32	48·3	41·0	44·8	+ 1·1	24	3	0	0·02 ϟ	− 0·83	21·4	+ 7·3	38	+ 13

Information for Stations marked ℳ is supplied by the Royal Meteorological Society, and that for Stations marked ℌ is supplied by the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 33 additional stations will be found in a Table on the last page of this issue.

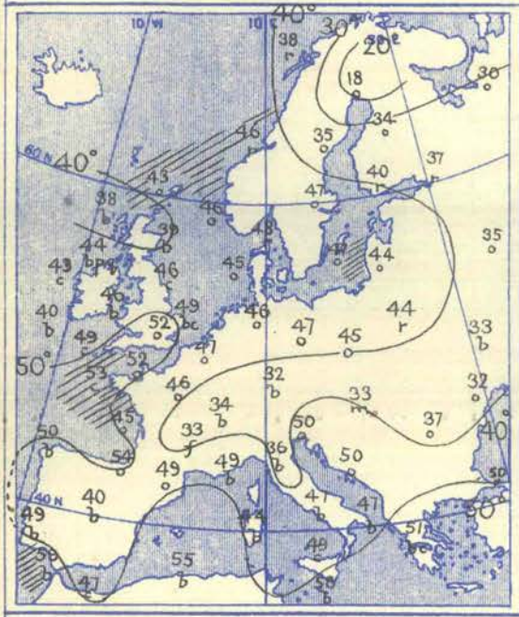
‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

ϟ Fog or mist.

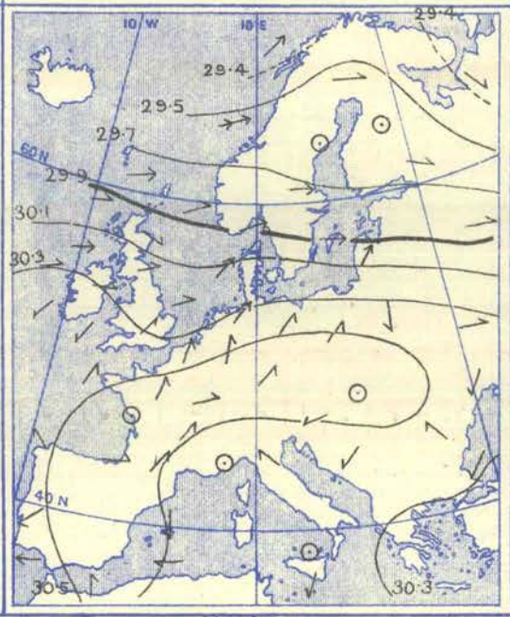
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 18th December, 1904.

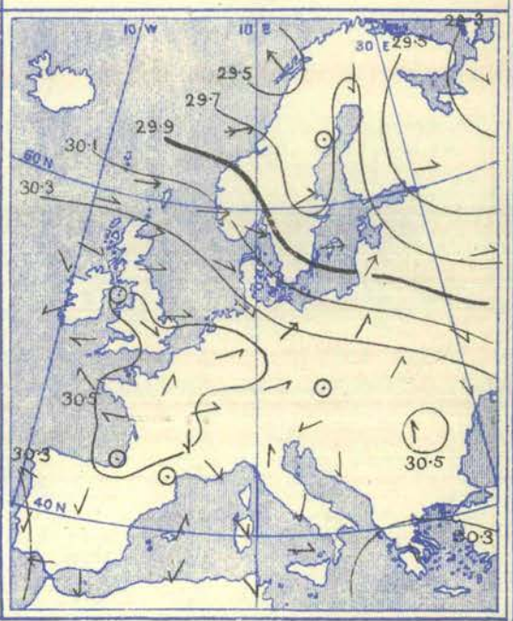
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fine and bright in many parts of the United Kingdom and over southern Europe; cloudy or overcast generally, with rain at some of our own south-eastern stations, in many parts of northern Europe, and in Poland. Remaining fine all day in the south, but rain falling in various parts of the northern countries.

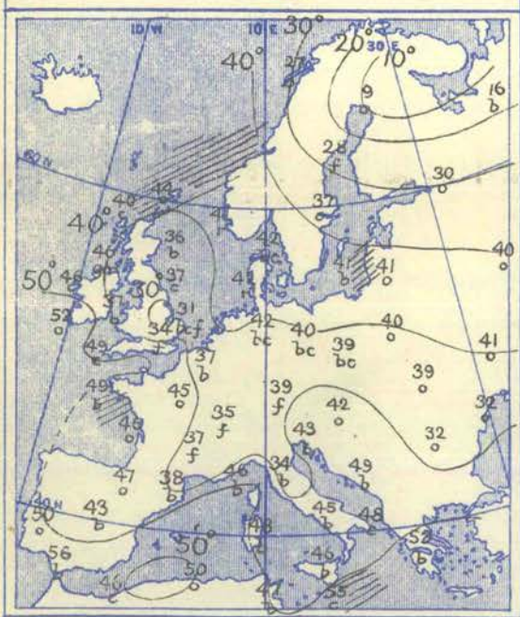
Temperature fallen in most regions—quickly over our Islands—but risen at several of the stations in central Europe, North Germany, the south of Sweden, and Finland. Morning readings highest, 59° at San Fernando, 58° at Malta, 57° at Barcelona, 52° in London. Lowest, (1) 18° at Haparanda, 30° at Archangel, 37° at St. Petersburg, (2) 33° at Lyons and Turin, 36° at Florence, (3) 37° at Parsonstown, 38° in the north of Scotland. Rising during day to 50° or above in many parts of France and the south of Europe generally, and to 60° or a little higher in Algeria and the south of Spain. Falling quickly during morning in the south-east of England.

Wind in morning South-Westerly to Westerly over the northern half of our area, fresh in places, and strong to a gale in some parts of Scandinavia. Mainly North-Easterly or Northerly and of little force in the south. No general change occurring later, but wind veering suddenly towards North in the south-east of England before noon.

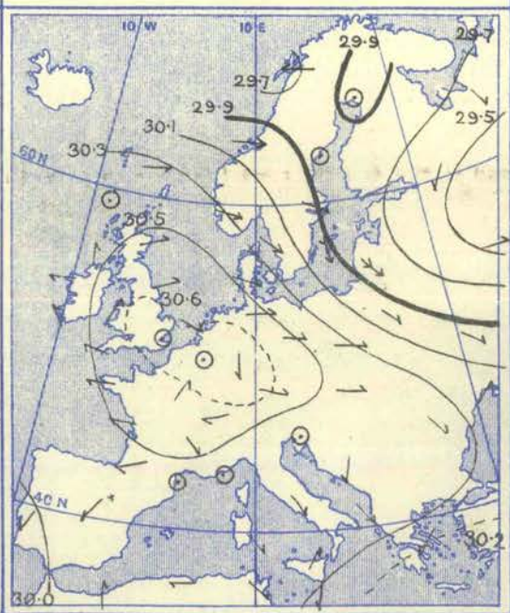
Barometer at 8 a.m. ranging from above 30·5 ins. in a long anticyclonic band covering the greater part of Spain and France and extending eastwards to beyond Lemberg, to below 30·3 ins. in Greece, and to less than 29·4 ins. in the extreme north of Russia and Lapland. A small secondary disturbance lying over the southern part of the North Sea. High pressure extending north-westwards and northwards during day to England and Ireland, and some modifications of the gradients taking place over the north of Europe.

Monday, 19th December, 1904.

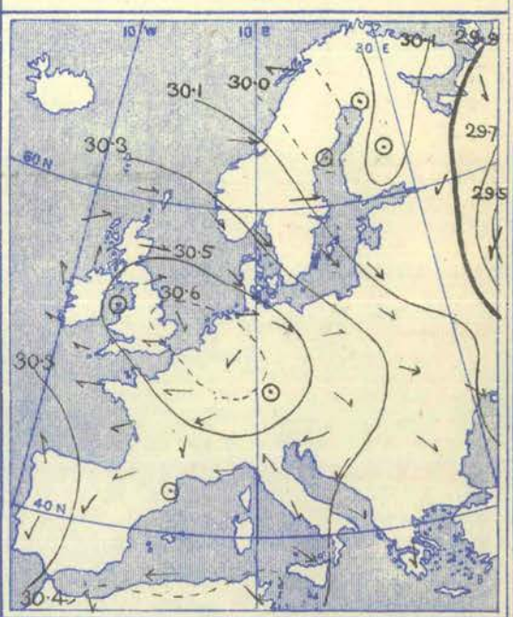
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast generally, with fog at some French and in many English localities, and rain in the west of Norway and on the coast of Jutland. Fine at a few of our own stations and in most parts of southern Europe. Rain continuing all day in the west of Norway and snow falling in Russia. Dry in almost all other regions; fog holding all day in central England.

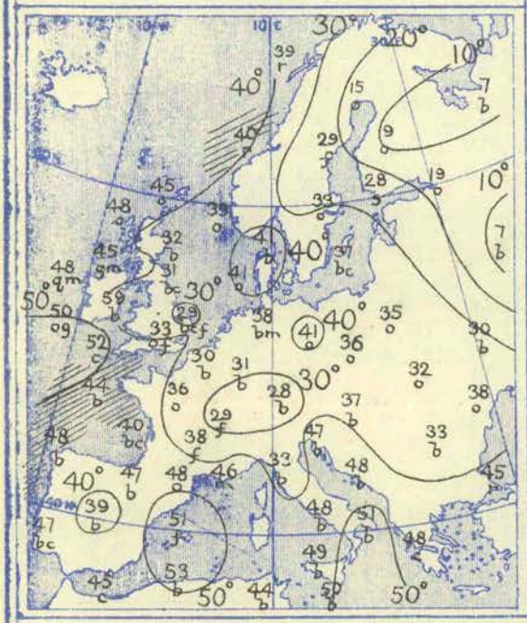
Temperature fallen very generally. Morning readings highest, 56° at San Fernando, 55° at Malta, and 54° at Barcelona. Lowest, (1) 9° at Haparanda, 16° at Archangel, (2) 27° over central England, (3) 32° at Hermanstadt, (4) 34° at Pesaro and Florence, and 37° at Rome. Scarcely exceeding 32° in central England during day, but rising to 50° or above on our most west and south-west coasts, and in the south of our area. Highest readings above 60° at Patras, in Algeria, and the south of Spain.

Wind in morning North-Westerly, strong to a gale, over the Baltic and its vicinity and strong from East at Bodö. Light and variable in most other regions, but a feeble anticyclonic movement prevailing over the United Kingdom and the adjacent countries. No important change taking place later.

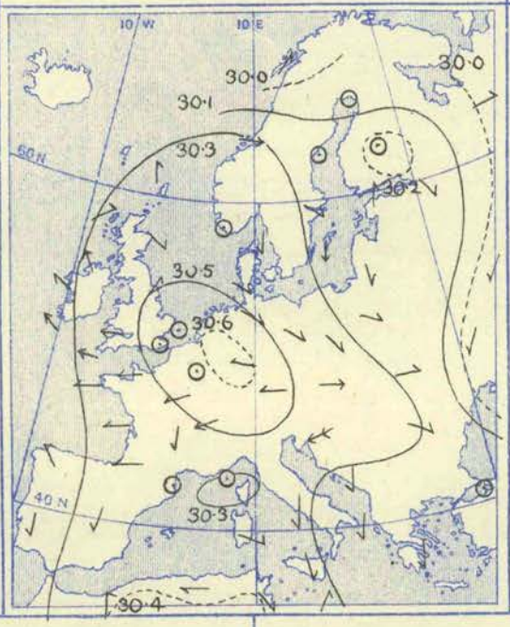
Barometer at 8 a.m. ranging from above 30·6 ins. in a high pressure centre extending from the north-west of England to Bavaria, to below 29·7 ins. in a depression off the north-west of Norway, and to less than 29·5 ins. in a large disturbance over Russia. Norwegian disturbance partially dispersing by 6 p.m., and that over Russia moving south-eastwards. Scarcely any change occurring within the region of high pressure.

Tuesday, 20th December, 1904.

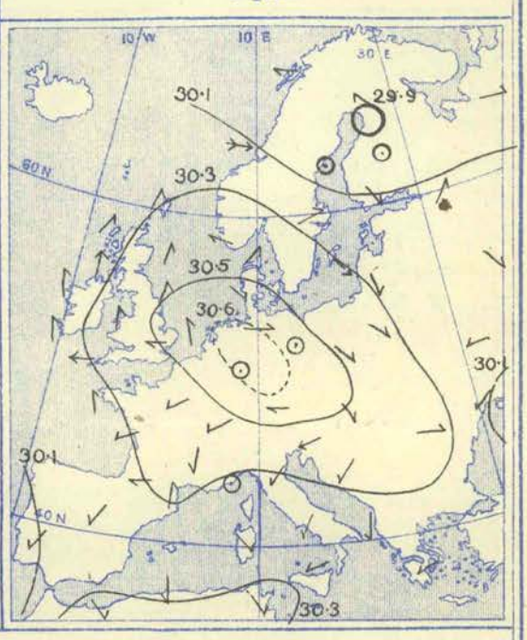
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast generally, but fine in many southern localities and at a few northern stations. Fog prevailing in many parts of England, showers in central Ireland, rain in the north-west of Norway, and snow at Hangö. Heavy rain continuing at Christiansund until evening, and a little snow falling in Russia and Finland, but day dry generally.

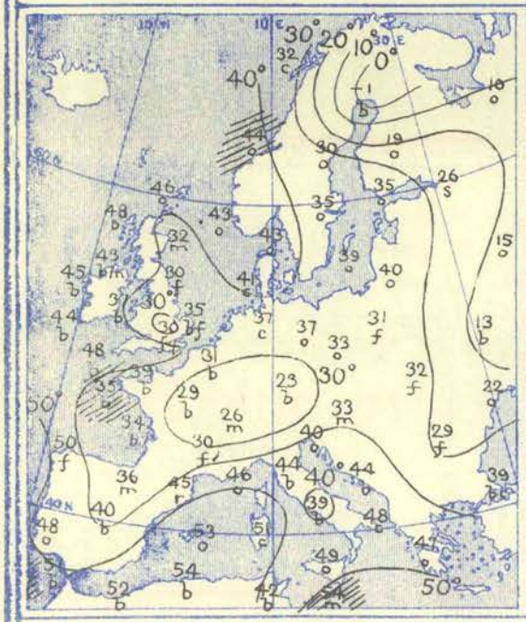
Temperature fallen as a whole—as much as 33° at Moscow. Morning readings highest, 53° at Algiers and Barcelona, 52° at Scilly, and 50° in the south of Ireland. Lowest (1) 7° at Moscow and Archangel, 9° at Kuopio, (2) 29° at Yarmouth, 30° at Spurn Head and Liverpool, and 31° at North Shields, (3) 28° at Munich, 33° at Florence, and 34° at Rome, (4) 39° at Madrid. Rising subsequently to 66° at Algiers, and to 60° or above at a few other southern stations, but only touching 51° at Rome and 47° at Florence. Frost continuing all day in the north-east of Europe, and thermometer only rising to 33° at North Shields.

Wind at 8 a.m. showing a very extensive anticyclonic circulation around the Netherlands, and the light or moderate Northerly winds of a cyclonic movement in the east and south-east of our area. Wind increasing to a fresh or strong breeze from the Eastward on our south-west coasts by evening, and to a strong gale from West at Christiansund.

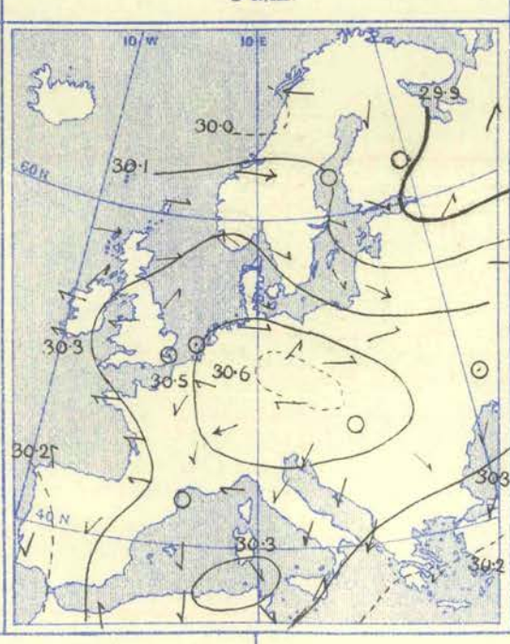
Barometer in morning ranging from 30·6 ins. in a high pressure area centred over Holland and its vicinity, to below 30·0 ins. in Lapland, and to below 29·9 ins. in the south-east of Russia. Very little change taking place later in the general distribution of pressure. Depression in north moving eastwards, and anticyclone expanding in an easterly direction towards central Europe.

Wednesday, 21st December, 1904.

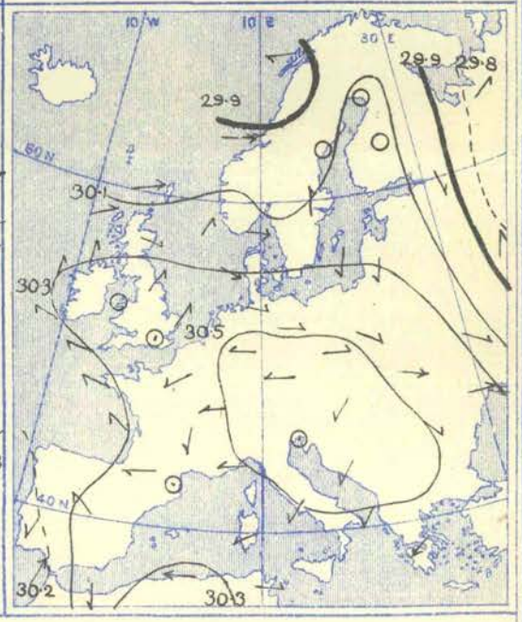
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. very foggy in most parts of England and in the south of Scotland. Cloudy or overcast over the northern parts of the continent and snow at St. Petersburg, fine and bright in most other regions. Some rain falling later in the Shetlands, Hebrides, and in a few parts of Scandinavia, and fog continuing at most English stations. Much sunshine on the south-east coasts of England.

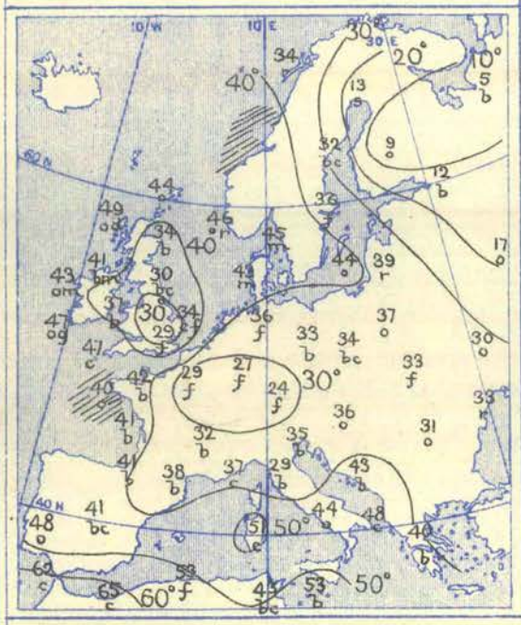
Temperature fallen generally, but risen in the north of Italy, Finland and the north of Russia. Morning readings highest, 54° at Malta, 53° at Palma, 50° at Corunna, and 48° at Stornoway. Lowest, (1) − 1° at Haparanda, + 10° at Archangel, 15° at Moscow. (2) 23° at Munich, 26° at Belfort, 28° at Limoges. (3) 24° at Oxford, 30° at North Shields and in London. Thermometer not rising above 27° all day at Oxford, 31° at Nottingham, and 33° in London, but touching 50° on our extreme south-west coasts and exceeding it in southern Europe and Algeria. Highest value 66° at Nemours

Wind light and anticyclonic over our Islands generally, but cyclonic in the extreme north and north-east of Europe. Easterly current blowing a moderate gale at Bodö, and that from west a strong breeze at Christiansund. Very little change as a whole later, but cyclonic winds extending somewhat over the northern regions.

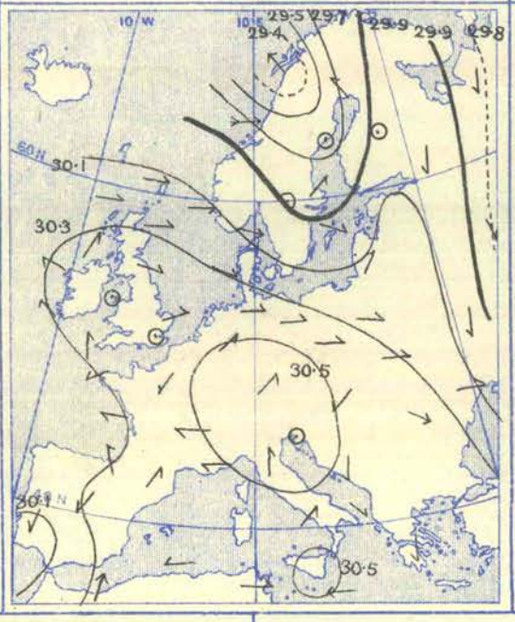
Barometer at 8 a.m. ranging from above 30·6 ins. in a vast anticyclone centred over Germany to about 30·0 ins. off the north-west of Norway and to less than 29·9 ins. over the north of Russia. No general modification taking place over our area during day, but a brisk fall of the barometer occurring in the north of Norway. Anticyclonic system extending both eastwards and westwards.

Thursday, 22nd December, 1904.

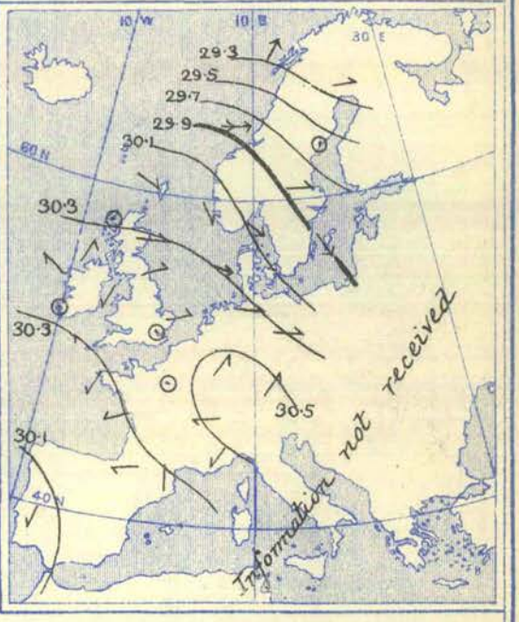
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. foggy in most parts of England and at some stations in central Europe; fine and bright in the southern countries, cloudy or overcast in the north. Rainy in Norway and at Cracow, snow at Haparanda, and drizzle in the Hebrides. Fog continuing all day in many parts of England, but a good deal of sunshine experienced on the south-east and east coasts. Slight rain later in the Hebrides and at Wick, and a little rain or snow in Scandinavia.

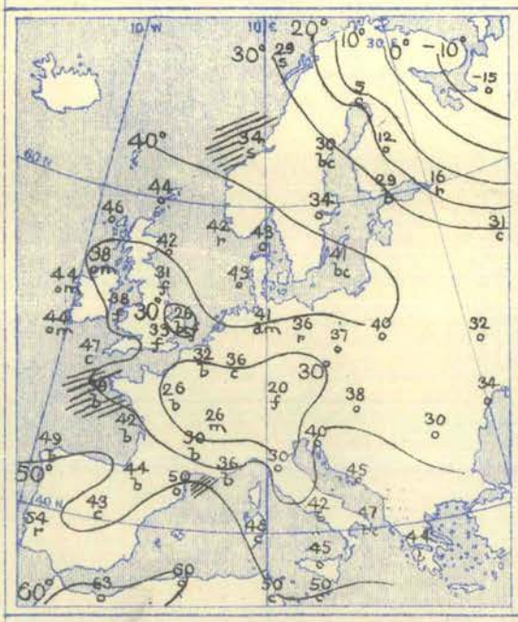
Temperature fallen as a whole. Morning values highest, 65° at Nemours, 62° at San Fernando, 53° at Malta. Lowest, (1) 5° at Archangel, 12° at St. Petersburg, 17° at Moscow, (2) 24° at Munich and Belfort, 25° at Paris, 29° at Florence, and 32° at Pesaro, (3) 25° to 32° in most parts of England. Continuing below 32° all day over central England, but rising to nearly 50° on our northern and western coasts, and to between 50° and 60° in the west and south of France.

Wind at 8 a.m. blowing a fresh Westerly gale in the west of Norway, and a strong South-Easterly breeze at Bodö. A vast anticyclonic circulation of little force prevailing in most parts of our area, but a moderate gale from South reported at Nemours, and from East at San Fernando. Very little change later over the western half of Europe.

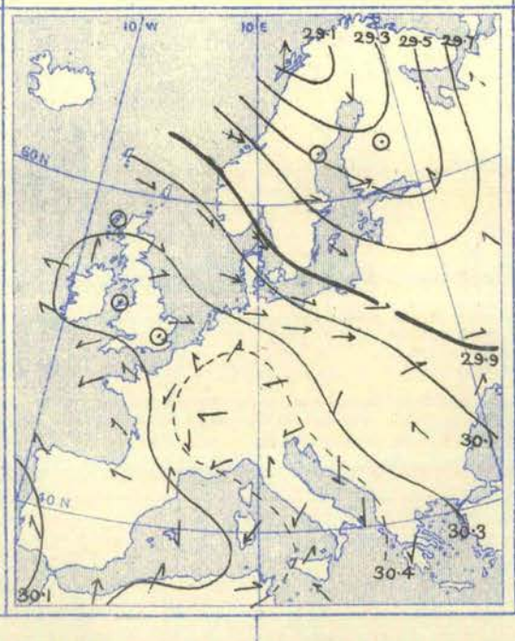
Barometer at 8 a.m. ranging from 30·5 ins. and upwards in a very large area centred over the southern part of central Europe to below 30·1 ins. over the extreme south-west of the Spanish Peninsula, and to less than 29·4 ins. in a large depression centred over the north of Norway. Latter system travelling eastwards during day, but little change taking place within the area of high pressure.

Friday, 23rd December, 1904.

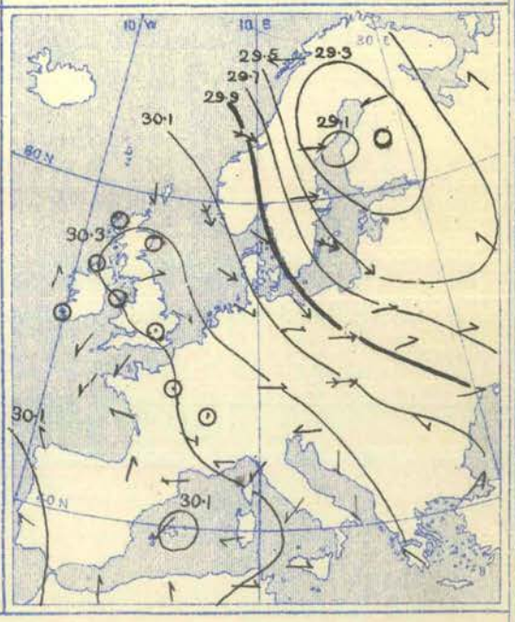
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. still very foggy in nearly all parts of England. Fair or fine in nearly all other regions, but raining at Berlin and Lisbon, snow falling at Lemberg, and rain or snow along the coast of Norway. Fog continuing all day at almost all English stations and some rain or snow falling in the Shetlands and in some Continental regions.

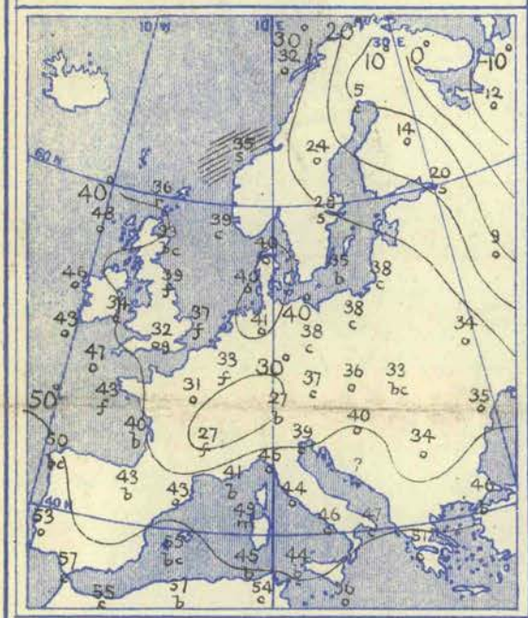
Temperature changed irregularly. Morning readings highest, 63° at Nemours, 60° at Algiers, 54° at Lisbon, and 50° at Malta. Lowest, (1) −15° at Archangel, + 3° at Moscow, 5° at Haparanda, and 16° at St. Petersburg, (2) 23° to 33° over the inland districts of England, (3) 26° at Paris and Belfort, 30° at Turin and Florence, and 35° at Rome. Remaining below 32° in some parts of central and north-western England all day, and severe frost continuing in northern Europe. Maxima above 60° at Biarritz and in Spain, and 70° or above at some Algerian stations.

Wind at 8 a.m. light and anticyclonic generally, but strong winds or gales from the North-Westward prevailing over the major portion of Scandinavia, and a partial cyclonic circulation of light to fresh winds over the south-west of our area. A fresh South-South-Westerly gale reported at Nemours. Gales increasing in force over Scandinavia during day, and a cyclonic movement setting in around the Balearic Islands. Gale at Nemours subsiding.

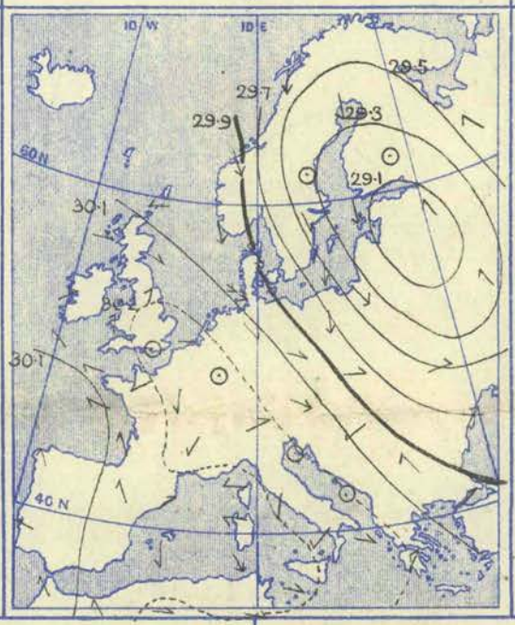
Barometer at 8 a.m. ranging from between 30·4 ins. to 30·3 ins. in a large anticyclone extending from Italy to beyond the west of Ireland, to 30·04 ins. at Lisbon, and to below 29·1 ins. in a depression over Lapland. Latter system apparently moving south-eastwards later, and gradients increasing considerably in its rear. A baric minimum appearing near Palma, but very little change taking place in pressure as a whole.

Saturday, 24th December, 1904.

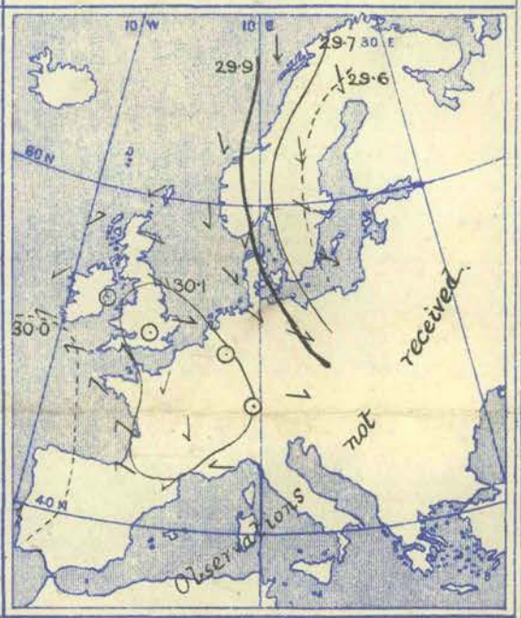
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather at 8 a.m. continuing foggy or misty in most parts of the United Kingdom and over the nearer portions of the Continent. Fair or fine in most southern regions, but rainy at Lésina and Florence. Cloudy or overcast in the northern countries, with rain in the Shetlands and snow in Finland. Remaining foggy or very misty all day in most English districts, and slight rain falling at some Scotch and Irish stations.

Temperature changed irregularly, but fallen at most stations. Readings at 8 a.m. highest, 57° at Algiers and San Fernando, 53° at Lisbon, and 50° at Corunna. Lowest, (1) −12° at Archangel, +5° at Haparanda, 9° at Moscow, 20° at St. Petersburg, (2) 27° at Lyons and Munich, 28° at Frankfort and Turin, (3) 28° at Oxford, 30° at Liverpool and Bath, and 32° at Nottingham. Thermometer rising to 59° at Lisbon during day and to 50° in the south and south-west of France. Only touching 32° at Oxford, 36° in London and at Paris, and 10° at Haparanda.

Wind in morning showing an extensive cyclonic circulation over the northern and eastern countries of the Continent, and a light anticyclonic movement elsewhere. North-Westerly current strong to a gale over Scandinavia and the Baltic. Little change later.

Barometer at 8 a.m ranging from above 30·2 ins. in the central portion of an anticyclone extending from the north of England to Italy and beyond, to less than 30·0 ins. in the south of Portugal, and to below 29·1 ins. in a large and deep depression having its centre over the west of Russia. Anticyclonic system becoming somewhat reduced in size and intensity during day, but little change occurring in the general distribution of pressure.

IV.—GENERAL NOTES, etc.

The chief feature in the distribution of pressure during this week was a large anticyclone which extended over our Islands from the Continent soon after the period commenced and maintained its position with considerable modification in form and intensity until its close. The only depressions of much importance were found over the northern regions of Europe, but some minor systems were also observed over some part of the Mediterranean. Very dry weather was consequently experienced over our area generally, but a great deal of fog and mist prevailed over Great Britain, especially over England, and slight falls of rain or snow occurred at times over the northern regions of the Continent. Very severe frost continued in the northern districts of Russia and Scandinavia, and the thermometer was often below the freezing point over France, central Europe, and the north of Italy. In the inland and eastern parts of England readings below 30° were very common, but on the most western and northern coasts of these Islands the temperature was rather high for the time of year.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 302.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	3·2	− 2·4	8	− 6										
STRATHPEFFER SPA	5·2	− 1·6	12	− 4	SHEFFIELD	7·8	—	15	—	WESTBOURNE †	26·4†	+ 15·1	49†	+ 28
CRATHES	11·0	—	24	—	WORKSOP	5·0	− 2·0	10	− 4	VENTNOR HOSPITAL †	18·0	+ 7·3	33	+ 14
BALRUDDERY	13·8	—	30	—	THURCASTON	3·7	− 3·3	7	− 6	BOURNEMOUTH	12·8	—	24	—
EDINBURGH	3·5	− 1·7	7	− 4	MARGATE	21·5	+ 11·2	41	+ 21	MARLBOROUGH	6·2	− 1·8	12	− 3
COCKLE PARK	20·9	—	43	—	BROADSTAIRS	—	—	—	—	SOUTHPORT	7·0	—	14	—
NEWCASTLE-on-TYNE	4·0	—	8	—	RAMSGATE	24·1	—	46	—	RHYL	—	—	—	—
YORK	5·1	− 0·4	11	− 1	EASTBOURNE	24·7	+ 12·5	46	+ 23	ABERDOVEY †	25·4†	—	49†	—
SKEGNESS	6·7	—	13	—	BRIGHTON	20·9	+ 9·5	39	+ 18	TENBY	7·0	− 3·0	13	− 6
CROMER	—	—	—	—	WORTHING	21·2	—	39	—	TORQUAY	15·4	+ 3·4	29	+ 6
LOWESTOFT	—	—	—	—	BOGNOR †	26·5†	—	49†	—	NEWQUAY	11·5	+ 0·2	21	0
DUNMOW	15·1	—	29	—						GUERNSEY †	16·7†	+ 6·4	30†	+ 12

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 40, page 236	Hereford	—	—	57·1	—	48·7	− 1·9	52	—	—	—	—	—	—	—	—
" " "	Blackpool	—	—	—	43·5	49·2	− 2·0	50	—	—	—	—	—	—	—	—
" " "	Jersey	—	—	—	—	—	—	—	—	—	3·12	+2·20	—	—	—	—
No. 41, page 242	Markree Castle	—	—	54·9	—	47·2	− 0·8	45	—	—	—	—	—	—	—	—
" " "	Roche's Point	—	—	—	—	—	—	—	—	—	0·29	− 0·74	—	—	—	—
No. 42, page 248	Nairn	—	—	—	—	—	—	—	—	3	0·18	− 0·36	—	—	—	—

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TWENTY-SEVENTH YEAR. *Vol. XXI. (New Series.)* No. 52. FIFTY-SECOND WEEK, ENDING SATURDAY, DECEMBER 31ST, 1904. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 30 years' observations (1871-1900). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the twenty years 1881-1900. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty-five years 1866-1900, but the *Mean numbers of Rainy Days* are those for the thirty years 1871-1900 only. BRIGHT SUNSHINE.—*The Mean Values* employed are those for the corresponding periods in the twenty years 1881-1900.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface.

Temperature of the Air.

	DISTRICTS. (See p. 308.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1904. Above 42°	Difference from Mean	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	53	26	44·6	36·2	40·6	3 above	7	0	24	− 9	2076	+ 47	733	− 70
	1. SCOTLAND, EAST	56	22	44·3	33·7	39·2	2 above	6	− 1	32	− 7	2251	−129	889	− 13
	2. ENGLAND, N.E.	55	20	42·8	33·4	38·3	0 (average)	2	− 7	32	− 1	2784	+170	692	− 22
	3. ENGLAND, EAST	56	25	44·2	35·3	39·9	2 above	6	− 3	26	−12	3090	+ 63	647	−144
	4. MIDLAND COUNTIES	60	21	43·7	33·9	39·0	1 above	5	− 5	31	− 8	2830	−135	805	− 22
	5. ENGLAND, SOUTH	56	29	45·8	38·1	42·1	3 above	17	+ 3	11	−17	3218	−142	492	− 81
Principal Grazing Districts.	6. SCOTLAND, WEST	55	22	44·6	35·9	40·5	1 above	7	− 4	25	− 1	2503*	− 59	588	− 16
	7. ENGLAND, N.W.	54	21	44·1	35·4	39·9	0 (average)	6	− 6	26	− 1	2750	− 71	582*	+ 15
	8. ENGLAND, S.W.	54	25	47·6	40·0	43·9	3 above	22	+ 4	6	−14	3187	+ 1	387	− 39
	9. IRELAND, NORTH	54	32	47·6	39·1	43·5	3 above	23	+ 9	8	−16	2585	−138	474	− 53
	10. IRELAND SOUTH	57	34	49·9	42·2	46·2	4 above	29	+ 7	0	−18	3145	0	329	− 60
	— CHANNEL ISLANDS	54	31	49·7	43·1	46·5	2 above	32	+ 3	0	− 7	3859	+ 64	89	− 62

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 308.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1904. No. of Rainy days.	Difference from Mean.	Total Fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1904. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	15	3 more	253	+23	52·3	+ 3·2	3	− 2	8	− 4	1175	+ 54	27	+ 1
	1. SCOTLAND, EAST	4	4	2 less	201	+ 5	25·9	− 5·2	6	− 3	12	− 6	1283	− 32	29	− 1
	2. ENGLAND, N.E.	3	1	4 less	164	−17	21·0	− 4·3	7	− 1	14	− 2	1449	− 4	33	0
	3. ENGLAND, EAST	5	2	3 less	164	−19	20·3	− 4·1	9	− 2	17	− 3	1655	+ 32	38	+ 1
	4. MIDLAND COUNTIES	3	1	4 less	173	0	23·6	− 4·1	7	− 2	13	− 4	1385	+ 33	31	+ 1
	5. ENGLAND, SOUTH	3	1	5 less	177	+ 6	26·5	− 1·9	6	− 4	12	− 8	1624	+ 33	37	+ 1
Principal Grazing Districts.	6. SCOTLAND, WEST	3	6	7 less	206	+ 2	48·1	− 2·8	5	− 4	11	− 8	1324	− 37	30	− 1
	7. ENGLAND, N.W.	3	2	5 less	192	0	31·3	− 3·9	4	− 2	8	− 5	1442*	+137	33	+ 3
	8. ENGLAND, S.W.	4	2	7 less	196	+ 1	37·5	− 1·1	3	− 8	6	−14	1539	− 95	35	− 2
	9. IRELAND, NORTH	4	4	5 less	250	+20	38·6	+ 1·8	1	− 7	3	−15	1239	− 32	28	− 1
	10. IRELAND, SOUTH	3	2	8 less	216	+ 8	39·1	− 1·9	4	− 7	8	−13	1355	−102	31	− 2
	— CHANNEL ISLANDS	5	1	7 less	228	+27	35·8	+ 2·4	11	− 2	19	− 3	1830	− 60	42	− 1

* This value has been altered owing to the receipt of further information.

Bright Sunshine.—For certain of the Districts the values of Bright Sunshine in this Table are based on the records from a part only of the Stations included in the Tables under II. and IV. For certain of the Stations Mean Values are not available, and for the Districts containing these Stations the "Differences from Mean" are based on the records from a smaller number of Stations than those supplying the values for "Hours Recorded."

General Remarks.

Weather was quiet and dry during the earlier days of the period, with a considerable amount of mist or fog over England. Later on the conditions became extremely unsettled and rough, and rain was experienced very generally.

Temperature was above the mean over the country as a whole, but only just equal to it in England N.E. and N.W. The highest of the maxima were registered at most stations on the 29th, and ranged from 60° in the Midland Counties to 53° in Scotland N. The lowest of the minima, which were mostly recorded during the earlier half of the week, ranged from 20° in England N.E. and 21° in the Midland Counties and England N.W., to 32° in Ireland N., and to 34° in Ireland S.

Rainfall was much less than the mean in most parts of the Kingdom, but in Scotland N., owing to a very heavy fall on the 29th, there was an excess.

Bright Sunshine was less than the mean in all districts, the percentage of the possible duration ranged from 19 in the Channel Islands and 17 in England E., to 8 in Scotland N., England N.W., and Ireland S., to 6 in England S.W., and to 3 in Ireland N.

Barometer and Wind.—At the commencement of the week the United Kingdom was under the influence of a large anticyclone stretching northwards from the Continent, and this condition continued, with some modifications, until Wednesday. From this date the barometer was highest over the Bay of Biscay, while large and deep depressions travelled rapidly east-south-eastwards over our most northern districts to the Continent. The gales accompanying the system of Friday were unusually severe over a very large area; their greatest force over these Islands was experienced over the northern half of the Kingdom from a point between north and west.

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II.—DATA from which the SUMMARY on page 307 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42°	Below 42°	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	47	30	43·9	36·4	40·3	+ 1·0	5	22	7	1·40	+ 0·45	*	*	*	*
	Stornoway	52	32	47·6	38·0	43·0	+ 3·9	24	11	5	1·29	+ 0·09	3·7	- 1·9	8	- 4
	Wick	50	30	45·9	34·7	40·5	+ 2·5	11	30	4	0·33	- 0·31	*	*	*	*
	Lairg S	52	26	40·9	33·4	37·3	+ 2·4	0	33	6	1·04	+ 0·17	*	*	*	*
	Glencarron S	52	27	44·7	38·1	41·5	+ 4·6	8	16	5	3·12	+ 0·85	*	*	*	*
	Fort Augustus S	53	28	44·8	36·3	40·7	+ 2·7	8	23	3	1·70	+ 0·54	6·2	+ 3·7	14	+ 8
1. SCOTLAND, E.	Nairn	55	28	45·1	34·9	40·2	+ 2·7	9	28	6	0·54	+ 0·08	*	*	*	*
	Aberdeen	56	33	45·6	37·3	41·6	+ 3·8	10	20	5	0·40	- 0·24	4·4	- 5·4	10	- 12
	Braemar S	50	22	42·3	31·2	37·0	+ 2·5	1	40	4	0·52	- 0·19	*	*	*	*
	Ochtertyre S	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Leith	54	26	45·9	33·3	39·9	+ 0·7	11	35	2	0·15	- 0·27	*	*	*	*
	Marchmont S	53	27	42·4	32·0	37·4	+ 0·9	1	37	2	0·25	- 0·40	6·7	- 1·1	14	- 2
2. ENGLAND, N.E.	Alnwick Castle	52	23	42·8	31·9	37·6	- 0·4	2	38	3	0·19	- 0·43	*	*	*	*
	Durham	52	20	40·8	31·8	36·5	- 0·6	0	39	1	0·11	- 0·42	6·8	- 3·0	14	- 6
	Shields	55	26	43·3	31·7	37·7	- 1·1	4	38	3	0·11	- 0·35	*	*	*	*
	Scarborough M	54	29	45·1	34·9	40·2	+ 1·5	9	28	4	0·23	- 0·32	2·6	—	5	—
	Spurn Head	52	30	43·7	35·6	39·8	+ 1·0	5	25	1	0·02	- 0·38	*	*	*	*
	Lincoln	55	28	42·3	34·6	38·6	+ 1·2	1	27	2	0·05	- 0·36	*	*	*	*
	Fulbeck (Lincolnshire)	53	27	41·9	33·0	37·6	+ 0·8	0	31	4	0·09	- 0·33	7·2	—	14	—
3. ENGLAND, E.	Hillington M	53	29	42·7	34·4	38·7	+ 1·6	2	28	5	0·22	- 0·30	9·7	+ 0·1	19	0
	Yarmouth	52	29	44·4	35·9	40·3	+ 2·5	7	24	6	0·44	- 0·08	*	*	*	*
	Geldeston	55	28	44·4	34·1	39·5	+ 1·3	7	31	7	0·25	- 0·19	4·6	- 6·6	9	- 13
	Cambridge	55	25	42·5	34·0	38·4	+ 0·8	1	29	4	0·14	- 0·23	8·7	- 1·3	16	- 3
	Felixstowe	54	31	45·1	36·3	40·9	+ 2·4	9	24	6	0·31	—	9·1	—	17	—
	Clacton-on-Sea	55	32	45·6	37·3	41·6	+ 2·4	10	20	5	0·07	—	11·1†	—	21†	—
	Rothamsted	54	27	43·4	33·8	38·8	+ 1·2	4	31	5	0·11	- 0·44	10·6	+ 0·7	20	+ 1
	Shoeburyness	56	28	45·6	36·4	41·2	+ 2·3	10	24	5	0·15	- 0·22	*	*	*	*
4. MIDLAND COUNTIES	Harrogate	52	22	41·6	31·4	36·7	- 0·3	0	37	2	0·17	- 0·48	10·5	—	21	—
	Bawtry (Hesley Hall)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Nottingham	56	26	43·1	34·0	38·7	+ 0·8	3	30	4	0·15	- 0·41	6·2	—	12	—
	Colly Weston (Stamford)	60	25	43·4	32·9	38·4	+ 1·3	4	35	5	0·15	- 0·31	*	*	*	*
	Cheadle M	52	26	41·6	33·6	37·8	+ 1·0	0	29	3	0·19	- 0·48	*	*	*	*
	Birmingham (Edgbaston)	53	27	43·1	35·7	39·6	+ 1·4	3	24	2	0·06	- 0·44	3·2	—	6	—
	Shrewsbury	55	27	46·4	36·6	41·7	+ 2·9	12	23	1	0·02	—	*	*	*	*
	Hereford M	56	21	44·2	33·4	39·0	+ 0·4	6	33	4	0·11	- 0·44	*	*	*	*
	Cirencester	55	27	45·2	33·7	39·7	+ 2·1	9	33	4	0·14	- 0·50	6·8	- 2·9	13	- 6
	Oxford	54	24	44·4	34·0	39·4	+ 0·7	7	31	4	0·13	- 0·34	7·2	2·5	14	- 5
5. ENGLAND, S.	London	56	29	46·6	37·1	42·0	+ 2·7	13	14	5	0·12	- 0·34	6·7‡	+ 1·8‡	12‡	+ 3‡
	Wisley (Surrey)	55	29	45·5	36·3	41·1	+ 1·3	10	24	2	0·12	—	8·2	—	15	—
	Swarraton (Alresford) M	53	32	44·5	36·7	40·8	+ 3·0	7	22	2	0·04	- 0·65	*	*	*	*
	Tunbridge Wells M	53	32	45·3	36·4	41·0	+ 2·6	9	23	4	0·14	—	8·7	—	16	—
	Dungeness	51	35	46·6	39·9	43·4	+ 3·3	19	6	5	0·24	- 0·21	8·6	—	16	—
	Hastings (St. Leonards)	53	37	45·9	39·3	42·7	+ 2·4	16	8	3	0·14	- 0·49	6·5	- 6·6	12	- 12
	Southampton	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Portland Bill	52	37	48·3	42·3	45·4	+ 3·3	24	0	4	0·09	—	*	*	*	*
	Shaftesbury M	51	33	43·7	36·4	40·2	+ 3·0	5	22	2	0·14	- 0·56	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	55	32	47·9	38·3	43·3	+ 2·9	25	10	5	1·92	- 0·13	*	*	*	*
	Glasgow	54	29	44·5	36·6	40·7	+ 2·1	7	22	3	0·40	- 0·53	4·5	+ 0·2	9	0
	Cally S	49	25	42·9	34·9	39·1	+ 0·6	3	27	3	0·35	- 0·80	*	*	*	*
	Aspatria	50	22	41·5	31·8	36·8	- 1·8	0	36	2	0·15	—	10·3	—	21	—
	Douglas (Isle of Man)	52	32	46·4	38·1	42·4	+ 1·2	19	11	2	0·19	- 0·85	1·3	- 8·4	3	- 17
7. ENGLAND, N.W.	Newton Rigg	51	21	41·4	27·3	34·6	- 2·6	0	52	2	0·27	—	13·4	—	27	—
	Stonyhurst	51	25	41·3	33·8	37·7	- 0·2	0	30	2	0·35	- 0·68	6·7	+ 0·3	13	+ 1
	Blackpool M	49	27	39·8	34·2	37·1	- 1·8	0	34	2	0·13	- 0·56	6·0	- 0·4	12	- 1
	Manchester (Prestwich)	52	23	43·0	33·7	38·5	+ 0·3	3	31	2	0·12	- 0·69	0·0	—	0	—
	Liverpool Obsy. (Bidston)	54	26	45·0	35·1	40·3	+ 0·5	8	28	3	0·09	- 0·46	—	—	—	—
	Chester (Hawarden Bridge)	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*
	Llandudno M	54	34	47·6	39·9	43·9	+ 2·2	22	6	5	0·26	- 0·40	2·1	- 6·7	4	- 13
	Holyhead	51	34	47·9	41·0	44·6	+ 2·0	22	3	3	0·17	- 0·66	*	*	*	*
	Bettws-y-Coed	53	31	46·6	38·5	42·7	+ 1·2	20	10	6	0·54	—	0·0	—	0	—
8. ENGLAND, S.W.	Llangammarch Wells	51	25	43·8	35·0	39·6	+ 1·9	5	27	5	0·50	—	1·0	—	2	—
	Pembroke	52	35	49·0	42·6	45·9	+ 2·4	27	0	3	0·11	- 0·79	1·0	- 9·6	2	- 18
	Cardiff	52	30	45·9	37·7	42·0	+ 1·1	11	12	5	0·21	—	*	*	*	*
	Clifton	52	29	46·3	37·6	42·1	+ 2·3	19	12	1	0·01	- 0·75	*	*	*	*
	Bath	54	30	47·0	37·6	42·5	+ 2·8	22	12	3	0·07	- 0·60	2·7	—	5	—
	Arlington (N. Devon)	51	34	46·6	39·6	43·2	+ 2·9	18	7	3	0·49	- 0·76	*	*	*	*
	Cullompton M	53	35	47·9	38·7	43·5	+ 3·9	24	9	3	0·12	- 0·71	2·0	- 8·2	4	- 15
	Falmouth	54	38	50·4	44·9	47·8	+ 3·6	41	0	4	0·24	- 0·98	6·7	- 5·9	12	11
	Plymouth	53	38	50·0	43·5	46·9	+ 4·3	34	0	4	0·12	- 0·80	2·8	- 8·6	5	- 16
9. IRELAND, N.	Malin Head	53	32	47·1	37·6	42·5	+ 0·8	22	12	3	0·35	- 0·32	*	*	*	*
	Edenfel (Omagh)	53	32	46·3	37·0	41·8	+ 4·0	12	22	4	0·49	- 0·34	*	*	*	*
	Blacksod Point	54	38	49·6	41·9	45·9	+ 2·7	28	0	5	0·35	- 0·94	*	*	*	*
	Markree Castle	54	32	48·4	39·8	44·3	+ 4·9	25	6	4	0·74	- 0·19	1·0	- 7·3	2	- 15
	Armagh	52	33	47·0	38·9	43·1	+ 4·3	21	9	3	0·18	- 0·46	1·8	- 7·2	4	- 14
	Donaghadee	53	35	47·4	39·4	43·6	+ 2·7	22	7	4	0·08	- 0·57	*	*	*	*
10. IRELAND, S.	Dublin	55	39	50·1	42·2	46·3	+ 4·7	30	0	4	0·16	- 0·36	1·7	- 10·7	3	- 21
	Birr Castle	54	35	50·1	39·9	45·2	+ 5·5	31	6	3	0·12	- 0·57	6·6	- 4·0	13	- 8
	Kilkenny	53	35	47·9	40·7	44·4	+ 3·7	22	4	4	0·28	- 0·48	*	*	*	*
	Waterford	54	37	49·1	40·0	44·7	+ 3·6	27	6	3	0·41	- 0·61	*	*	*	*
	Roche's Point	53	40	50·1	44·9	47·6	+ 3·8	39	0	5	0·22	- 0·99	*	*	*	*
	Valencia	55	41	52·0	46·0	49·1	+ 4·0	50	0	4	0·17	- 1·25	4·6	- 5·9	9	- 12
	Killarney	57	40	49·8	43·5	46·8	+ 3·4	34	0	2	0·13	- 1·43	*	*	*	*
	Foynes	55	34	49·9	40·4	45·3	+ 3·6	30	4	2	0·08	- 0·88	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	44	51·9	46·1	49·1	+ 2·4	50	0	5	0·12	- 0·78	6·4	- 6·6	11	- 12
	Jersey	53	31	47·4	40·0	43·9	+ 0·5	22	6	4	0·16	- 0·65	15·8	+ 1·4	28	+ 3

Information for Stations marked M is supplied by the Royal Meteorological Society, and that for Stations marked S is supplied by the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

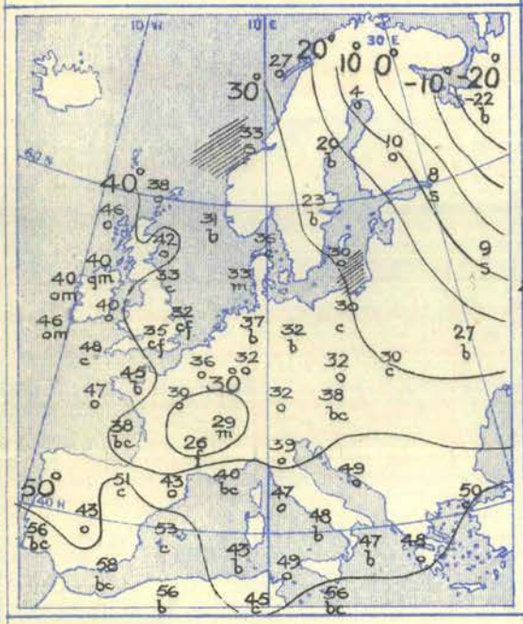
† The Sunshine values at Clacton-on-Sea are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. Reports of Bright Sunshine at 33 additional stations will be found in a Table on the last page of this issue.

‡ For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster.

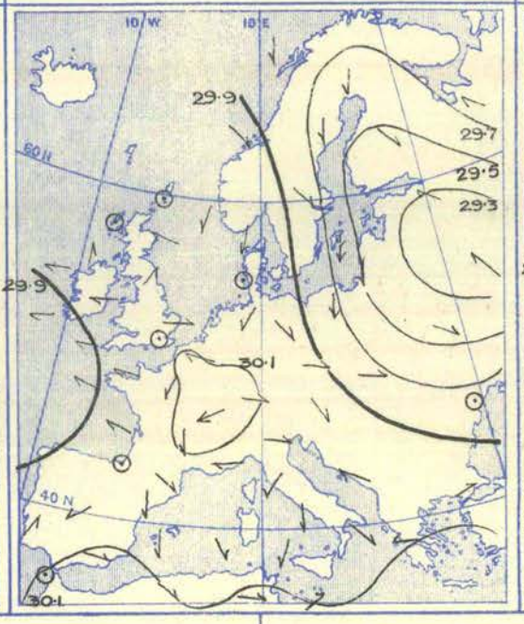
NOTE.—The Bright Sunshine values entered to Fulbeck are recorded at Rauceby; those entered to Dungeness at Littlestone-on-Sea, and those entered to Liverpool at Hoylake.

Sunday, 25th December, 1904.

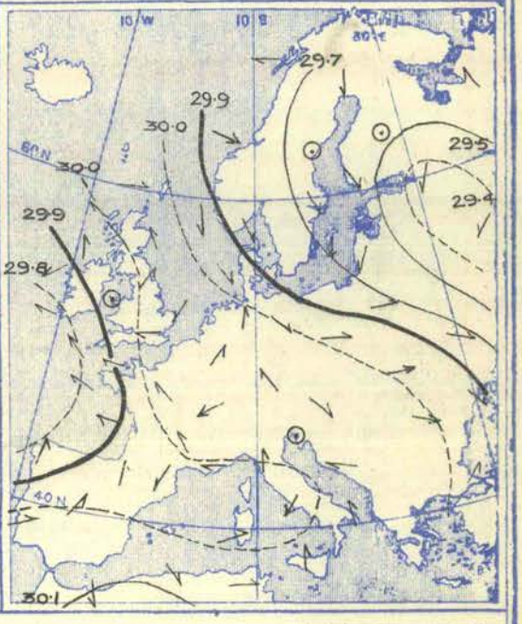
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or overcast generally, but fine and bright at some stations both in the north and south of our area. Fog prevailing in many parts of England, snow at Christiansund, Breslau, and in various Russian localities, passing showers at Parsonstown, and steady rain at Florence and Pesaro. A considerable amount of rain falling later at Lisbon and of snow at Memel and Christiansund. Fog continuing all day at several English stations.

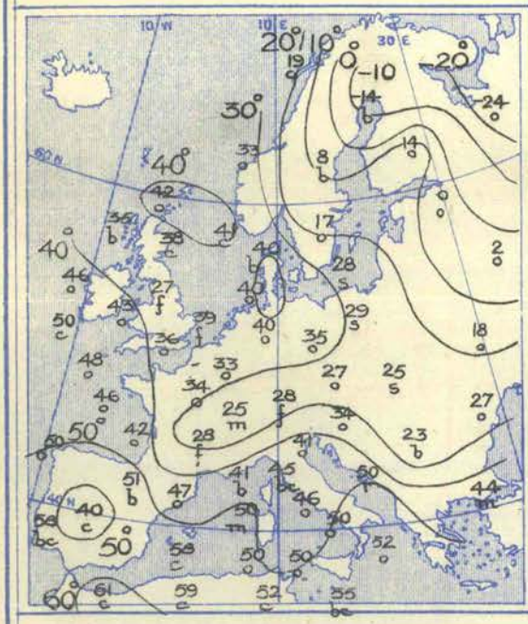
Temperature fallen in most regions. Morning readings highest, 59° at Nemours, 56° on the coast of Portugal and at Malta, 51° at Biarritz, and 48° at Scilly. Lowest, (1) – 22° at Archangel, + 8° at St. Petersburg, 9° at Moscow, and below 20° in the north-east of our area generally, (2) 26° at Lyons, 29° at Belfort, 30° at Paris, (3) 31° to 33° in central, northern, and eastern England. Maximum during day only 32° at Nottingham, but thermometer rising to 52° at Scilly and Valencia, to above 60° in the extreme south of Europe, and to 70° at Nemours.

Wind at 8 a.m. mainly anticyclonic and of very little force over the eastern half of our area, and cyclonic in the east. Northerly current strong to a gale over Gothland and the Baltic. Scarcely any change later.

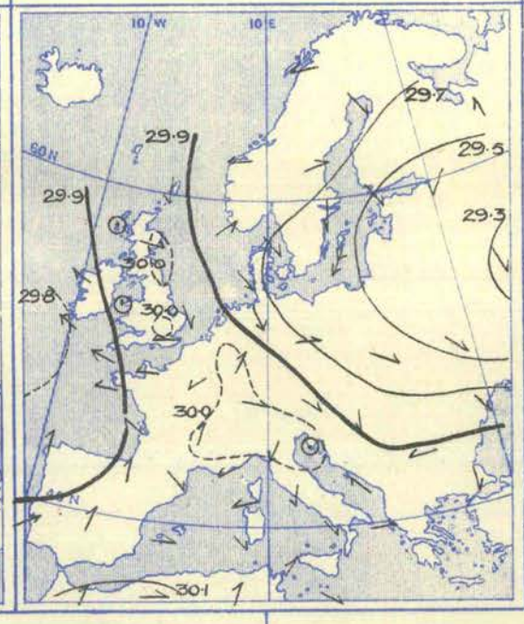
Barometer at 8 a.m. highest, 30·0 ins. to 30·1 ins. in a large high pressure area embracing most of the western and southern regions of Europe. Lowest, 29·3 ins. and less in a large depression having its centre over Russia. No change in the general distribution later, but barometer falling slowly within the anticyclonic area.

Monday, 26th December, 1904.

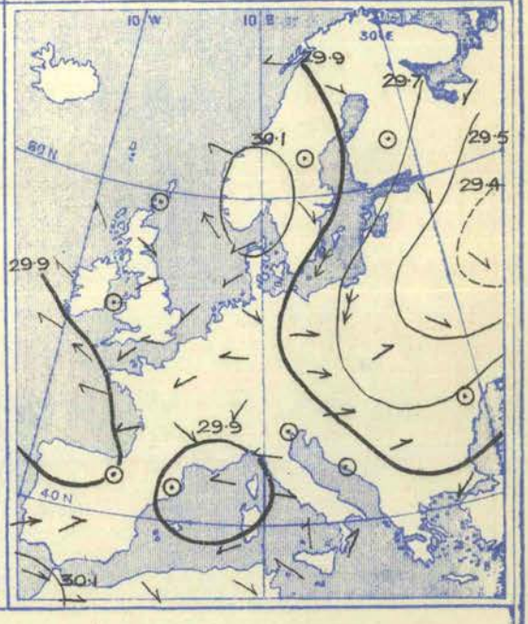
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. misty or foggy in most parts of our Islands; cloudy or overcast in most other regions, but fair or fine in places. Rainy at Lésina, and snow falling over the Baltic and at some stations in central Europe. Remaining misty or foggy at most of our own stations, some snow falling in various parts of central and northern Europe, and heavy rain over the Spanish Peninsula, the Riviera, and at Algiers.

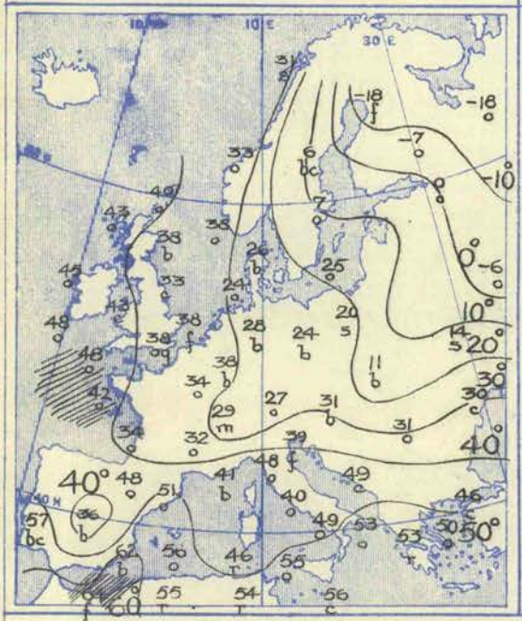
Temperature fallen in most districts. Morning readings highest, 61° at Oran, 59° at Algiers, 58° at Lisbon, and 55° at Malta. Lowest, (1) – 24° at Archangel, – 14° at Haparanda, 0° (zero) at St. Petersburg, + 2° at Moscow, (2) 23° at Hermanstadt, (3) 25° at Belfort, (4) 27° to 32° over the northern and central counties of England. Rising during day to 70° at Nemours, above 60° at several other far southern stations, and to above 50° in the south of France and at Valencia (Ireland). Maximum at Haparanda no higher than zero.

Wind at 8 a.m. light and anticyclonic over all the western countries and cyclonic over Russia and its neighbourhood. North-Westerly current strong in Denmark and a fresh gale from North-East prevailing in Gothland. Northerly and North-Easterly gales extending to the North German coast by evening, but little change as a whole.

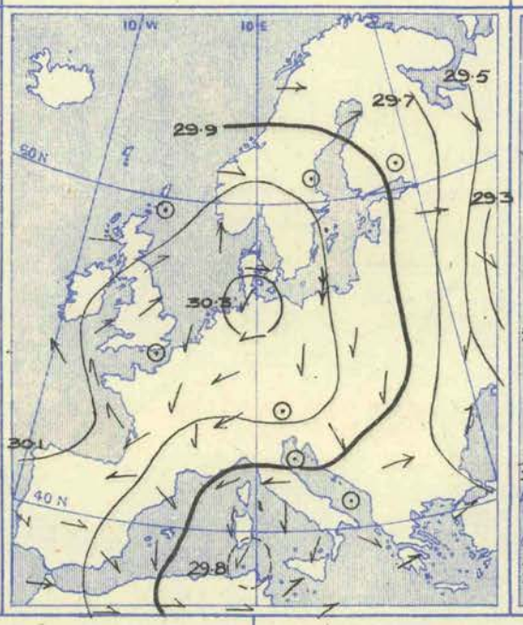
Barometer in morning highest, 30·1 ins. and upwards in Morocco and western Algeria and 29·0 ins. to above 30·0 ins. over Great Britain, France, and central Europe, to 29·8 ins. at Valencia Island, and to 29·3 ins. and less over central Russia. Pressure increasing quickly and becoming highest in Norway during day, and a gentle rise of the barometer also taking place over the United Kingdom.

Tuesday, 27th December, 1904.

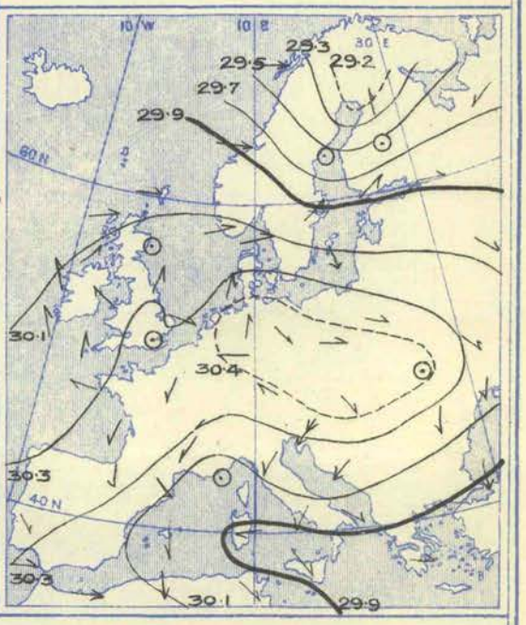
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. foggy or misty in many parts of Great Britain, cloudy or dull over our area generally, but fine and bright in several parts of central and southern Europe. Rain falling at Athens and in Algeria, and snow at Kiev, Neu-Fahrwasser, and Bodö. Continuing foggy or misty all day in the south-east of England, slight rain falling on our west and north-west coasts and large quantities in Algeria and some of the Mediterranean Islands.

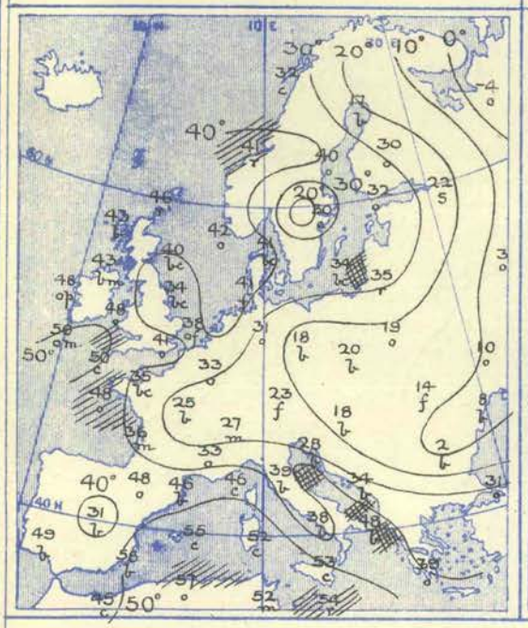
Temperature fallen as a whole, but changed irregularly in places. Morning readings highest, 64° at Nemours, 61° at San Fernando, 57° at Lisbon, 56° at Malta, 53° at Athens and Brindisi. Lowest, (1) 18° at Archangel and Ulcaborg, −6° at Moscow, zero at St. Petersburg, +7° at Stockholm, and 8° at Warsaw, (2) 23° at Turin, 27° at Munich, (3) 30° at Nairn, 32° at Leith, (4) 36° at Madrid. Exceeding 40° at almost all our own stations later, and touching 52° at Scilly. Highest maxima, 68° in western Algeria, and 64° at San Fernando.

Wind at 8 a.m. showing a vast anticyclonic circulation over the greater part of our area and a faint cyclonic movement over the Mediterranean. The Northerly current blowing a fresh gale at Wisby. Wind increasing from the Westward over Scandinavia by evening, and from the North-Eastward over Italy and the Adriatic. A fresh gale blowing at Trieste by 6 p.m.

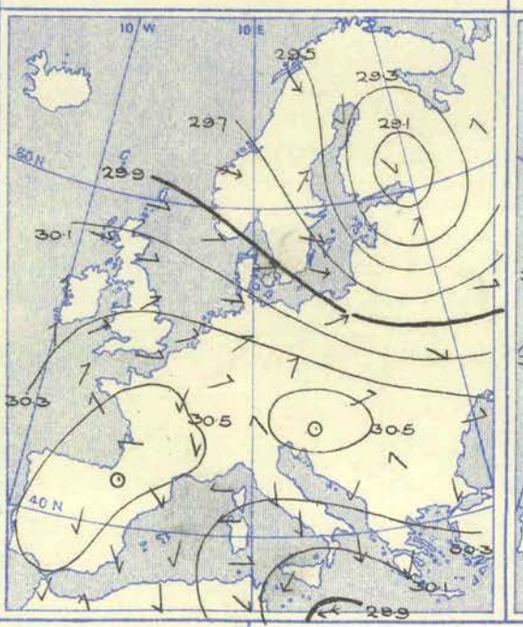
Barometer at 8 a.m. highest, 30·3 ins. and above in a large high pressure area having its centre over Holstein, to 29·78 ins. at Cagliari, 29·73 ins. at Bodö, and to 29·32 ins. at Moscow. High pressure area increasing both in size and intensity during day, and the centre of a large and deep depression appearing over Lapland. Gradients increasing considerably both over northern and southern Europe.

Wednesday, 28th December, 1904.

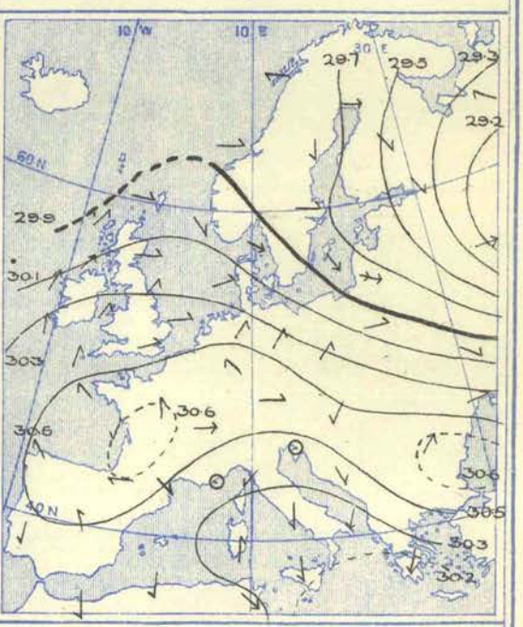
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. fair or fine in most parts of southern and central Europe, as well as in Scotland. Cloudy or dull in almost all other regions, with fog at Nottingham and Yarmouth, showers at Blacksod Point, rain at Sumburgh Head, Christiansund, and Memel, and snow at St. Petersburg. Slight rain experienced later at most of our own stations and on the north coast of Africa, and nearly an inch at Christiansund.

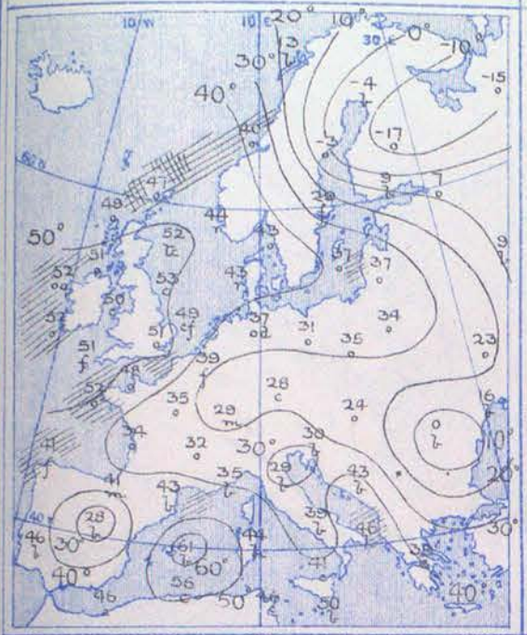
Temperature risen in most regions, very rapidly in Sweden and Finland, fallen decidedly over Austria and southern Europe. Morning readings highest, 57° at Algiers, 55° at Palma, 54° at Malta, 50° on our south-west coasts. Lowest, (1) −4° at Archangel and Kharkov, +3° at Moscow, 22° at St. Petersburg, (2) 2° at Hermanstadt, below 20° at most stations in central Europe, (3) 34° at North Shields, (4) 31° at Madrid. Rising during the ensuing twenty-four hours above 50° over our Islands and at nearly all stations in the south of Europe, and to above 60° in Algeria. Not exceeding 35° at Paris and 28° at Munich.

Wind at 8 a.m. cyclonic both in the north of Europe and over the Mediterranean; anticyclonic elsewhere. Westerly current strong to a gale over Scandinavia, the Baltic, and Gulf of Finland, and Northerly and North-Easterly winds blowing with equal force over several parts of the Mediterranean. Force of wind decreasing generally later, but freshening and backing on our own north-west coasts.

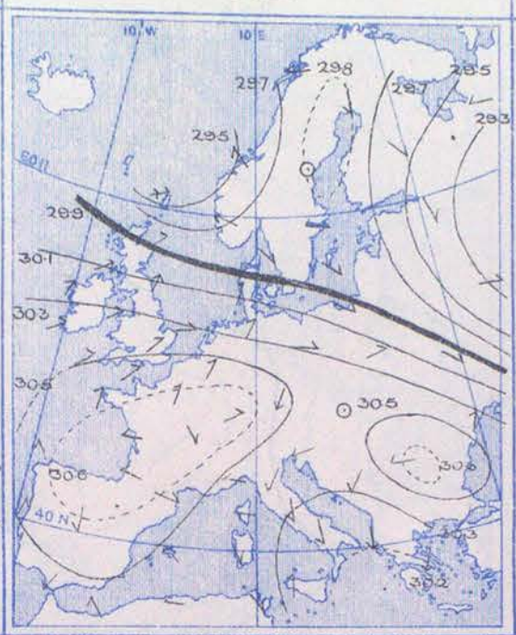
Barometer at 8 a.m. highest, 30·4 ins. to 30·5 ins. in a vast anticyclonic area extending from the Atlantic, the Spanish Peninsula, the Bay of Biscay, and the English Channel to the western shores of the Black Sea. Lowest, less than 29·1 ins. in a deep depression centred over Finland. Relatively low in another disturbance with its centre to the southward of Malta. Finnish depression moving away in an east-south-easterly direction during day, but a baric fall on our north-west coasts indicating the approach of another system from the Atlantic.

Thursday, 29th December, 1904.

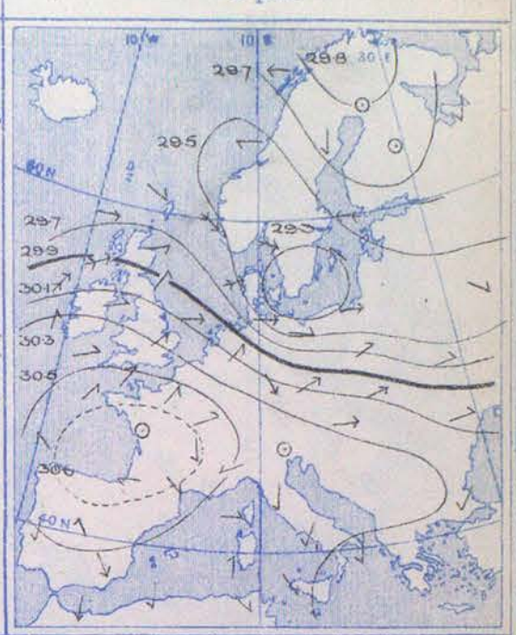
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. cloudy or dull as a whole, but fine and bright in most of the southern regions. Rainy at one or two of our own southern stations, in the north of Holland, and at Fanö and Skudesnaes. About three-quarters of an inch of rain falling later in the Shetlands and Hebrides, and smaller amounts over our Islands and their vicinity, and considerable snow in Russia and Scandinavia. A thunderstorm occurring at Algiers.

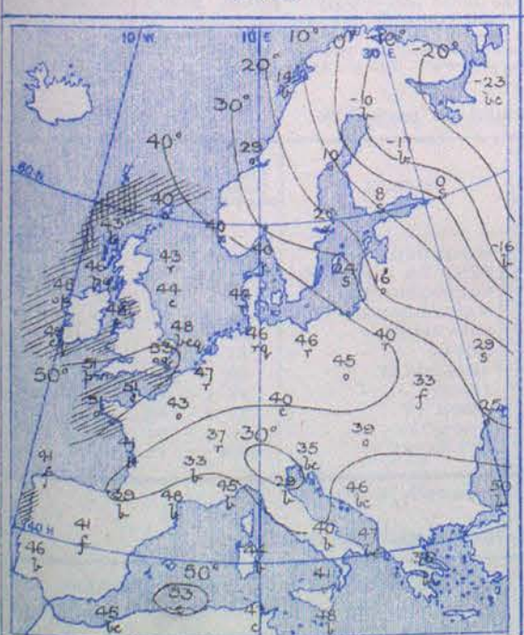
Temperature risen quickly over the United Kingdom, Denmark, and the central countries, fallen in most other places—very rapidly in Sweden and Finland. The change during the twenty-four hours as much as 43° at Hernösand and 47° at Kuopio. Morning readings highest, 61° at Palma, 56° at Algiers, and above 50° in nearly all parts of the United Kingdom. Lowest, (1) −17° at Kuopio, −15° at Archangel, +7° at St. Petersburg, 9° at at Moscow, 13° at Bodö, (2) 0° (zero) at Hermanstadt, 16° at Odessa, (3) 28° at Pesaro, 29° at Florence, 31° at Rome, (4) 28° at Madrid. Rising later to 54° or 55° at many of our own stations and to 56° at Aberdeen and in London. Maxima rather above 60° in Algeria and 66° at Brindisi.

Wind at 8 a.m. moderate to fresh or strong South-West or West over our Islands generally and blowing a whole gale from West in the Shetlands. Moderate from between North and North-West over Russia and the Baltic, and moderate or fresh from some Northerly point over most parts of the Mediterranean. Wind increasing to a strong gale from various quarters later over Germany, Denmark, the south of Scandinavia and the Baltic, and to a Westerly gale on our north-west coasts.

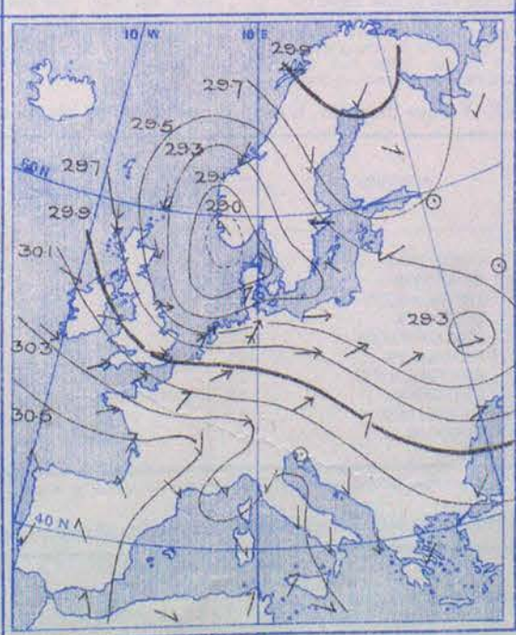
Barometer at 8 a.m. highest, 30·6 ins. and upwards in two anticyclonic centres shown over the more southern parts of our area, to less than 30·2 ins. in a depression over the Ionian Sea, to below 29·5 ins. in a larger system off the west of Norway, and to below 29·3 ins. in another depression over Russia. Disturbance off Norway moving quickly south-eastwards during day, and another deep system travelling quickly over the north of Scotland during the night. Gradients becoming very steep in nearly all northern regions.

Friday, 30th December, 1904.

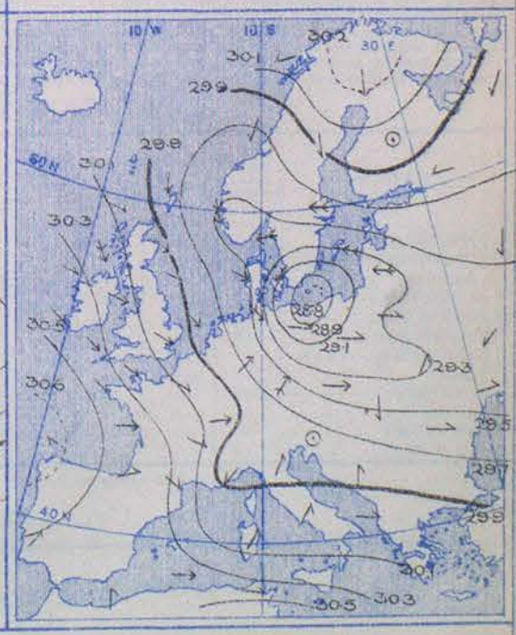
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather at 8 a.m. very rough and unsettled generally, with rain squalls over our Islands and the nearer parts of the Continent and in the south of Sweden, over Finland, and at Kiev. Fine and bright in the south of our area and also at several stations in the extreme north of Europe. Slight rain later in many parts of our Islands, and heavier falls of rain or snow over the northern half of the Continent.

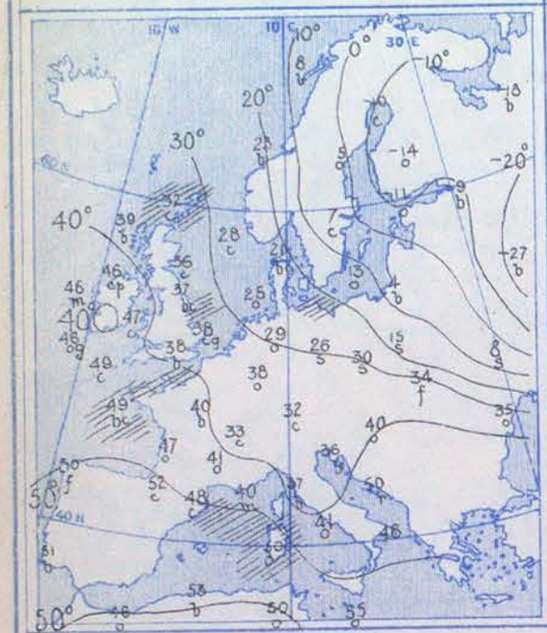
Temperature fallen generally, but risen over France and central Europe. Morning readings highest, 53° at Algiers and in London, 48° at Malta and Perpignan. Lowest, (1) −23° at Archangel, and much below zero over Russia generally and also in Finland, (2) 26° at Turin, 29° at Florence, 32° at Rome, (3) 31° at Athens, and 36° at Patras. Rising a little later to 54° in London, 53° at Jersey and Clacton, and to 50° or above in several parts of our Islands. Maxima elsewhere ranging from 64° at Algiers to much below freezing point in the north and east of Europe.

Wind at 8 a.m. showing a cyclonic circulation of very strong winds to severe gales over our Islands and the north-western countries generally. Gale most severe from North-West and West over the northern half of the United Kingdom. A separate cyclonic circulation prevailing over the south-east of Russia, and a partial cyclonic movement over the Gulf of Genoa. Gale increasing in violence over the Baltic and Germany by the evening, but decreasing over our Islands.

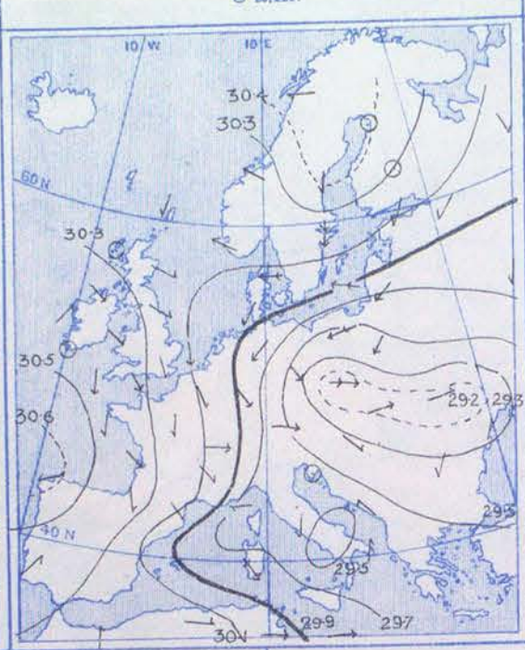
Barometer at 8 a.m ranging from above 30·5 ins. in an anticyclone over the Spanish Peninsula and the south-west of France to below 29·3 ins. in a depression centred near Kiev, and to below 29·0 ins. in a very large and deep disturbance having its nucleus off the south-west of Norway. Gradients steep generally, especially over the United Kingdom, the Netherlands, Belgium, and the north of France.

Saturday, 31st December, 1904.

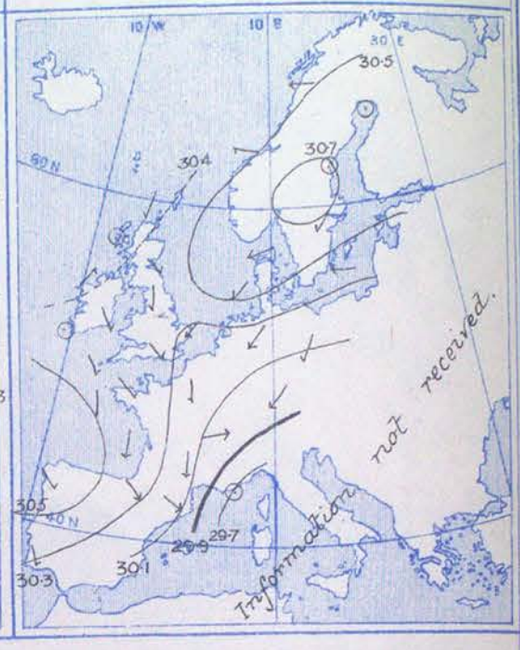
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



6 p.m.



Weather at 8 a.m. very rough and unsettled over central and southern Europe, with snow in most parts of Germany and at Kiev. Fine and bright in many British localities and also in Portugal and the northern half of Russia. Slight rain falling later in various parts of our Islands, and rain or snow in several Continental localities.

Temperature fallen except over Italy, the south-west of France, and in Portugal. Morning readings highest, 55° at Malta, 53° at Algiers, 52° at Biarritz, and 50° at Lesina. Lowest, (1) −27° at Moscow, −18° at Archangel and Uleaborg, −9° at St. Petersburg and Hangö, (2) 32° at Munich, 35° at Pesaro, 40° at Nice, 41° at Rome, (3) 35° at Oxford, 36° at Clacton-on-Sea and Dungeness. Rising later to 61° at Lisbon, 54° on the coast of Brittany, 51° at Scilly and Valencia, and to 46° at Stornoway. Severe frost continuing all day over the east and north of Europe.

Wind at 8 a.m. blowing a gale and circulating cyclonically over all the more central regions of Europe, and also in various parts of the Mediterranean. Moderate to fresh or strong from North-West or North over the United Kingdom and the Bay of Biscay. Anticyclonic winds prevailing in the extreme north at 8 a.m., and extending quickly southwards over Scandinavia during day.

Barometer at 8 a.m. ranging from 30·6 ins. in an anticyclone off the north-west of Spain, and above 30·4 ins. in another system over Lapland and the north of Scandinavia, to below 29·5 ins. in a depression over Italy and the Adriatic, and to less than 29·2 ins. in another disturbance centred over Poland. Northern high pressure travelling very quickly southwards during evening, and main depression apparently moving away eastwards or south-eastwards.

IV.—GENERAL NOTES, etc.

During the earlier days of the week a large anticyclone of little intensity extended from the Mediterranean northwards to beyond Scotland, while a shallow area of low readings was shown off our south-west coasts and a deeper disturbance over Russia. Later on the appearance of large and deep depressions moving eastwards or south-eastwards over the north of our area and of others over Italy and the Mediterranean caused a great modification in the distribution of pressure. The barometer became highest in a long band stretching from east to west across the central countries, and, except within this anticyclonic band, the gradients increased considerably. By 8 a.m. on Thursday the centre of an important disturbance lay to the northward of the Shetlands, and was causing Westerly gales off the north of Scotland and fresh or strong winds over our Islands generally. This system subsequently travelled to the Baltic and was accompanied by fresh or strong gales. The following day another and more important cyclonic system travelled very rapidly east-south-eastwards across the north of Scotland to the North Sea and brought about a very severe and general gale over the United Kingdom and its neighbourhood. This system also passed on to the Baltic and Germany and at the same time increased in depth and the gales in those regions were exceptionally severe. Rough weather was also experienced at times over the Mediterranean and the bordering countries, but the sky in that region was often clear and the rainfall neither heavy nor general. Falls of snow or rain were frequent in the north of Europe and temperature was sometimes very low. In Sweden, Finland, and the north of Russia there were some remarkably rapid changes of temperature.

At the end of the week a very quick rise of the barometer was taking place over Scandinavia and an anticyclone was moving southwards from the Arctic regions.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 308.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible Duration	Difference from the Mean for the Week.
DEERNESS	1·4	− 4·3	3	− 10	SHEFFIELD	7·5	—	15	—	WESTBOURNE	7·0†	− 4·6	13†	− 8
STRATHPEFFER SPA	1·9	− 5·1	4	− 11	WORKSOP	4·4	− 3·0	9	− 6	VENTNOR HOSPITAL	4·4	− 6·6	8	− 12
CRATHES	3·2	—	7	—	THURCASTON	8·4	+ 0·8	16	+ 2	BOURNEMOUTH	5·6	—	10	—
BALRUDDERY	0·0	—	19	—	MARGATE	9·7	− 0·6	18	− 1	MARLBOROUGH	3·4	− 5·0	6	− 9
EDINBURGH	4·2	− 1·7	9	− 4	BROADSTAIRS	13·2	—	24	—	SOUTHPORT	4·9	—	10	—
COCKLE PARK	14·0	—	29	—	RAMSGATE	13·3	—	25	—	RHYL	2·6	—	5	—
NEWCASTLE-on-TYNE	3·9	—	8	—	EASTBOURNE	2·4	− 9·9	4	− 18	ABERDOVEY	0·0†	—	0†	—
YORK	6·6	+ 0·6	13	+ 1	BRIGHTON	3·8	− 7·6	7	− 14	TENBY	0·5	− 10·6	1	− 20
SKEGNESS	5·8	—	11	—	WORTHING	5·5	—	10	—	TORQUAY	3·1	− 9·2	6	− 18
CROMER	—	—	—	—	BOGNOR	8·7†	—	16†	—	NEWQUAY	4·8	− 6·7	9	− 13
LOWESTOFT	—	—	—	—						GUERNSEY	10·3†	− 0·5	18†	− 1
DUNMOW	8·3	—	16	—										

† The values at Bognor, Westbourne, Aberdovey, and Guernsey are obtained by Jordan's Photographic Recorder.

ERRATA.—The values shown below must be substituted for those which have already appeared.

TWENTY-SEVENTH YEAR. VOLUME XXI. (New Series). WEEKLY ISSUE.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
No. 42, page 248	Hereford	—	—	60·8	—	54·2	+ 6·7	85	—	—	—	—	—	—	—	—
" " "	Blackpool	—	—	57·0	—	53·4	+ 5·1	80	—	—	—	—	—	—	—	—
" " page 252	Worthing	—	—	—	—	—	—	—	—	—	—	—	13·6	—	19	—
No. 43, page 254	Scarborough	—	—	—	44·0	50·6	+ 3·8	60	—	—	—	—	—	—	—	—
" " "	Lincoln	—	—	—	40·2	47·2	+ 1·9	44	5	—	—	—	—	—	—	—
" " "	Hereford	—	—	—	36·7	44·7	− 1·8	—	15	—	—	—	—	—	—	—

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1904.

Twenty-seventh Year.
Vol. XXI. [*New Series.*] } APPENDIX I. FIRST QUARTER—JANUARY TO MARCH. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE FIRST QUARTER OF THE THIRTY-NINE YEARS, 1866 TO 1904.

YEARS.	Principal Wheat-producing Districts.												Principal Grazing Districts.												Channel Islands.		Means for Districts 1-10 combined.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing Districts.					
	RAINFALL.																											
	Days.	Ins.	Days	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.
Means for 5 years, 1866-1870.	—	12·6	—	9·6	—	5·4	—	5·7	—	6·9	—	8·5	—	7·2	—	12·6	—	11·8	—	13·7	—	11·8	—	11·0	—	12·2	—	—	—	9·7
1871-1875	—	9·1	—	7·8	—	4·9	—	4·4	—	6·6	—	7·1	—	6·2	—	11·1	—	10·4	—	13·7	—	9·5	—	10·5	—	11·0	—	—	—	8·6
1876-1880	—	9·5	—	7·2	—	5·3	—	5·7	—	6·2	—	7·2	—	6·3	—	11·2	—	9·5	—	9·9	—	9·2	—	10·0	—	10·0	—	—	—	8·2
1881-1885	65	9·9	49	6·2	45	5·2	44	5·1	45	6·4	43	6·4	45	5·9	58	12·5	50	8·8	53	9·7	61	9·4	58	11·9	56	10·5	57	8·2	51	8·2
1886-1890	66	12·2	52	6·2	47	5·2	47	4·7	43	5·2	44	5·4	47	5·3	53	10·7	50	6·9	49	8·3	56	8·4	50	9·5	52	8·8	57	7·1	50	7·1
1891	65	14·7	38	5·1	43	3·7	43	3·8	37	4·1	38	5·8	40	4·5	47	9·2	35	4·4	38	6·8	49	5·5	42	5·6	42	6·3	43	6·2	41	5·4
1892	63	11·2	46	5·5	47	4·4	49	4·0	44	4·0	38	3·7	45	4·3	47	8·0	46	6·3	47	6·4	49	5·9	45	7·6	47	6·8	52	6·9	47	5·6
1893	65	12·8	51	5·9	44	4·5	49	5·2	48	5·0	48	5·9	48	5·3	57	10·0	49	6·4	49	8·7	59	7·8	50	8·7	53	8·3	56	7·3	52	6·8
1894	68	21·1	56	11·0	51	5·4	47	4·2	54	5·8	49	6·3	51	6·5	64	18·6	56	9·9	56	10·5	64	12·3	61	10·9	60	12·4	56	7·7	56	9·5
1895	59	9·8	48	6·4	58	7·5	52	5·6	42	5·4	41	4·7	48	5·9	48	6·7	48	6·7	46	8·1	56	7·7	48	9·5	49	7·7	55	7·3	49	6·8
Means for 5 years, 1891-1895.	64	13·9	48	6·8	49	5·1	48	4·6	45	4·9	43	5·3	47	5·3	53	10·5	47	6·7	47	8·1	55	7·8	49	8·5	50	8·3	52	7·1	49	6·8
1896	68	17·8	50	4·8	39	4·1	47	4·9	45	4·3	42	4·4	45	4·5	61	12·1	53	8·3	50	6·9	56	9·2	51	8·8	54	9·1	53	4·9	50	6·8
1897	65	11·0	57	6·9	59	6·4	57	6·9	54	7·9	52	9·2	56	7·5	58	11·0	61	7·9	65	13·0	66	9·6	61	11·8	62	10·7	70	11·6	59	9·1
1898	77	18·7	52	4·8	44	3·4	41	3·5	39	2·9	37	3·5	43	3·6	62	10·5	50	7·3	48	6·0	61	7·8	44	6·6	53	7·6	56	4·4	48	5·6
1899	60	13·7	53	8·4	48	5·3	46	4·6	44	6·8	38	5·9	46	6·2	57	13·1	51	8·9	49	12·5	62	8·9	51	12·5	54	11·2	48	8·1	50	8·7
1900	66	11·7	54	8·8	54	7·8	55	7·5	50	8·6	50	9·3	53	8·4	54	12·2	52	9·2	56	13·5	60	8·2	56	9·9	55	10·6	65	12·4	54	9·5
Means for 5 years, 1896-1900.	67	14·6	53	6·7	49	5·4	49	5·5	46	6·1	44	6·5	48	6·0	58	11·8	53	8·3	54	10·4	61	8·7	53	9·9	56	9·8	58	8·3	52	7·9
1901	64	10·6	52	6·5	55	5·6	52	5·1	49	6·6	45	6·1	51	6·0	50	10·0	51	6·7	47	9·3	59	8·1	50	8·6	51	8·5	63	8·0	51	7·3
1902	68	14·6	50	4·7	41	3·7	42	3·2	38	4·6	35	4·9	41	4·2	60	13·3	53	6·5	47	7·6	63	8·7	49	9·1	54	9·0	51	6·0	48	6·6
1903	75	24·6	60	12·6	47	5·1	44	4·7	48	7·4	54	6·8	51	7·3	75	22·6	63	11·9	64	12·2	74	14·2	70	15·7	69	15·3	66	8·8	60	11·3
1904	62	13·0	56	7·5	54	5·4	54	5·9	61	7·7	60	9·0	57	7·1	57	14·1	56	9·6	62	12·3	67	10·6	67	13·1	62	11·9	67	12·8	60	9·5
Means for 39 years, 1866-1904.	—	12·1	—	7·3	—	5·2	—	5·1	—	6·1	—	6·6	—	6·1	—	11·9	—	8·9	—	10·5	—	9·4	—	10·3	—	10·2	—	—	—	8·2
	MEAN TEMPERATURE.																											
Means for 5 years, 1866-1870.	38°·8		39°·1		38°·9		39°·9		39°·9		40°·7		39°·7		40°·1		40°·5		43°·1		40°·6		42°·1		41°·3		°		40°·5	
1871-1875	40°·2		40°·0		39°·7		39°·9		40°·5		41°·2		40°·3		40°·8		41°·6		44°·0		41°·6		43°·7		42°·3		—		41°·3	
1876-1880	38°·6		38°·2		39°·2		39°·4		39°·8		40°·6		39°·4		39°·9		40°·2		43°·2		40°·8		43°·6		41°·5		—		40°·5	
1881-1885	38°·8		38°·9		39°·4		39°·8		39°·9		41°·4		39°·9		40°·2		40°·5		42°·7		41°·3		43°·1		41°·6		44°·9		44°·8	
1886-1890	38°·1		38°·0		38°·3		37°·4		37°·8		38°·8		38°·1		39°·3		38°·9		40°·2		40°·5		41°·8		40°·1		43°·2		39°·1	
1891	38°·4		38°·0		37°·9		37°·4		38°·0		38°·4		37°·9		39°·6		39°·5		40°·2		40°·8		42°·3		40°·5		43°·1		39°·2	
1892	36°·3		36°·1		36°·9		36°·3		36°·6		38°·3		36°·8		37°·9		37°·9		39°·7		39°·2		40°·3		39°·0		43°·0		37°·9	
1893	38°·8		38°·8		40°·2		39°·8		40°·3		41°·3		40°·1		40°·7		41°·2		42°·8		42°·2		43°·8		42°·1		46°·0		41°·1	
1894	39°·2		38°·8		39°·8		40°·0		40°·4		41°·8		40°·2		41°·0		42°·0		42°·7		41°·8		43°·6		42°·2		45°·5		41°·2	
1895	34°·3		32°·5		34°·9		34°·4		33°·6		35°·3		34°·1		34°·8		35°·0		36°·4		36°·5		38°·4		36°·2		39°·9		35°·2	
Means for 5 years, 1891-1895.	37°·4		36°·8		37°·9		37°·6		37°·8		39°·0		37°·8		38°·8		39°·1		40°·4		40°·1		41°·7		40°·0		43°·5		38°·9	
1896	40°·9		40°·4		41°·2		40°·9		41°·4		42°·7		41°·3		42°·3		42°·5		43°·9		43°·4		45°·5		43°·5		46°·7		42°·4	
1897	37°·5		37°·4		39°·4		39°·8		39°·8		41°·7		39°·6		39°·5		40°·4		42°·5		40°·6		42°·8		41°·2		45°·7		40°·4	
1898	40°·1		40°·3		41°·1		40°·5		40°·7		42°·2		41°·0		42°·0		42°·1		43°·0		42°·7		44°·3		42°·8		45°·8		41°·9	
1899	38°·4		38°·0		40°·3		41°·1		40°·7		42°·7		40°·6		40°·6		41°·8		43°·4		41°·7		43°·8		42°·3		46°·8		41°·5	
1900	36°·6		35°·9		37°·6		38°·1		37°·8		39°·9		37°·9		38°·2		38°·6		40°·7		39°·0		40°·1		39°·3		44°·6		38°·6	
Means for 5 years, 1896-1900.	38°·7		38°·4		39°·9		40°·1		40°·1		41°·8		40°·1		40°·5		41°·1		42°·7		41°·5		43°·3		41°·8		45°·9		41°·0	
1901	38°·0		37°·0		38°·0		37°·2		37°·3		38°·5		37°·6		39°·0		38°·5		39°·7		40°·0		40°·8		39°·6		43°·2		38°·6	
1902	37°·8		37°·4		39°·5		39°·7		39°·8		41°·2		39°·5		39°·7		40°·2		42°·1		41°·2		43°·2		41°·3		45°·3		40°·4	
1903	39°·7		39°·7		42°·2		43°·3		42°·4		44°·1		42°·3		42°·0		42°·9		44°·6		42°·4		44°·3		43°·2		47°·0		42°·8	
1904	38°·4		37°·4		38°·9		39°·2		38°·9		40°·2		38°·9		39°·5		39°·4		41°·6		40°·2		42°·0		40°·5		44°·2		39°·7	
Means for 39 years, 1866-1904.	38°·6		38°·4		39°·1		39°·2		39°·4		40°·6		39°·3		40°·0		40°·2		42°·3		40°·9		42°·8		41°·2		—		40°·3	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-NINE YEARS, 1866 TO 1904.

		Wheat Districts.	Grazing Districts.	Wheat and Grazing Districts combined.
Rainfall	Driest	Ins. 3·6 in 1898	Ins. 6·3 in 1891	Ins. 5·4 in 1891
	Wettest	9·0 in 1872	15·3 in 1903	12·0 in 1872
Temperature	Coldest	34°·1 in 1895	36°·2 in 1895	35°·2 in 1895
	Warmest	42·8 in 1882	44·6 in 1882	43·7 in 1882

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR PERIODS OF FOUR WEEKS OR FIVE WEEKS, AND THE PROGRESSIVE VALUES FROM JANUARY 3RD, 1904, FOR THE FIRST QUARTER, 1904.

1904. — FOUR WEEKS OR FIVE WEEKS ENDING.	0. SCOTLAND, N.		Principal Wheat-producing Districts. 1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		Principal Grazing Districts. 6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR GRAZING DISTRICTS.		CHANNEL ISLANDS.		MEANS FOR DISTRICTS 1-10 COMBINED.	
	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
Jan. 30 -	22	22	16	16	14	14	18	18	20	20	21	21	18	18	21	21	20	20	20	20	22	22	22	22	21	21	24	24	20	20
Feb. 27 -	21	43	20	36	20	34	18	36	21	41	23	44	20	38	19	40	20	40	24	44	23	45	23	45	22	43	24	48	21	41
Apr. 2 -	19	62	20	56	20	54	18	54	20	61	16	60	19	57	17	57	16	56	18	62	22	67	22	67	19	62	19	67	19	60
RAINFALL.—AMOUNTS IN INCHES.																														
Jan. 30 -	5·48	5·48	2·39	2·39	1·34	1·34	1·76	1·76	2·22	2·22	3·63	3·63	2·27	2·27	4·92	4·92	3·44	3·44	4·34	4·34	3·99	3·99	4·24	4·24	4·18	4·18	4·73	4·73	3·23	3·23
Feb. 27 -	3·98	9·46	2·87	5·26	2·54	3·88	2·56	4·32	3·81	6·03	3·70	7·33	3·10	5·37	4·52	9·44	3·74	7·18	5·72	10·06	3·63	7·62	4·98	9·22	4·52	8.70	5·79	10·52	3·81	7·04
Apr. 2 -	3·54	13·00	2·21	7·47	1·48	5·36	1·60	5·92	1·66	7·69	1·62	8·95	1·71	7·08	4·64	14·08	2·45	9·63	2·26	12·32	2·93	10·55	3·87	13·09	3·23	11·93	2·25	12·77	2·47	9·51
ACCUMULATED TEMPERATURE.—DAY DEGREES ABOVE 42° F.																														
Jan. 30 -	33	33	22	22	25	25	16	16	32	32	26	26	24	24	40	40	33	33	80	80	42	42	90	90	57	57	95	95	41	41
Feb. 27 -	2	35	0	22	8	33	22	38	10	42	39	65	16	40	12	52	8	41	47	127	24	66	50	140	28	85	87	182	22	63
Apr. 2 -	37	72	43	65	57	90	72	110	72	114	82	147	65	105	44	96	48	89	94	221	76	142	105	245	73	158	123	305	69	132
ACCUMULATED TEMPERATURE.—DAY DEGREES BELOW 42° F.																														
Jan. 30 -	99	99	131	131	124	124	128	128	133	133	107	107	125	125	69	69	95	95	54	54	79	79	41	41	68	68	12	12	97	97
Feb. 27 -	149	248	182	313	125	249	104	232	128	261	87	194	125	250	123	192	115	210	78	132	117	196	97	138	106	174	18	30	116	213
Apr. 2 -	163	411	203	516	162	411	163	395	185	446	147	341	172	422	159	351	186	376	119	251	121	317	88	226	131	305	50	80	151	364
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
Jan. 30 -	16	16	29	29	36	36	42	42	32	32	36	36	35	35	26	26	32	32	40	40	23	23	36	36	31	31	46	46	33	33
Feb. 27 -	39	55	33	62	40	76	52	94	37	69	60	96	44	79	28	54	33	65	49	89	37	60	47	83	39	70	70	116	42	75
Apr. 2 -	111	166	112	174	98	174	118	212	95	164	115	211	108	187	105	159	107	172	118	207	109	169	110	193	110	180	155	271	109	184
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
Jan. 30 -	8	8	14	14	16	16	19	19	14	14	15	15	16	16	12	12	14	14	17	17	10	11	16	16	14	14	19	19	15	15
Feb. 27 -	15	12	13	13	15	16	19	19	14	14	22	19	16	16	11	11	12	13	18	18	14	12	17	17	14	14	25	22	16	15
Apr. 2 -	27	19	27	20	24	19	29	23	23	18	28	23	26	21	26	18	26	19	29	23	27	19	27	21	27	20	38	29	27	20

EXPLANATION OF TABLES.

TABLES I. and IA. are in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884-1903. The whole of the values for 1878-1904, however, have been corrected by information which may have been received since they were first published.

TABLE II. In this Table the values given do not apply to calendar months but to periods of four weeks or five weeks ending at the dates shown.

The figures given in the columns headed "From Jan. 3, 1904" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for the Grazing Districts" the values for the "Channel Islands" are not included.

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1904.

Twenty-seventh Year. VOL. XXI. [*New Series.*] } APPENDIX I. SECOND QUARTER—APRIL TO JUNE. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE SECOND QUARTER OF THE THIRTY-NINE YEARS, 1866 TO 1904.

YEARS.	Principal Wheat-producing Districts.														Principal Grazing Districts.												Channel Islands.		Means for Districts 1-10 combined.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing Districts.					
	RAINFALL.																													
	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.
Means for 5 years, 1866-1870.	—	8·8	—	5·7	—	5·5	—	4·5	—	5·3	—	5·1	—	5·2	—	7·1	—	6·5	—	7·0	—	7·5	—	7·2	—	7·1	—	—	—	6·2
1871-1875	—	8·5	—	6·5	—	5·5	—	5·5	—	6·4	—	6·4	—	6·1	—	7·3	—	7·4	—	7·9	—	7·5	—	6·2	—	7·3	—	—	—	6·7
1876-1880	—	6·3	—	6·9	—	7·1	—	7·2	—	7·7	—	7·1	—	7·2	—	8·5	—	7·8	—	9·0	—	8·3	—	9·8	—	8·7	—	—	—	8·0
1881-1885	51	6·7	44	5·2	43	5·8	39	5·9	41	6·5	38	5·6	41	5·8	47	8·1	42	7·0	44	7·2	52	7·2	46	7·7	46	7·4	45	5·6	44	6·6
1886-1890	54	7·0	43	5·7	40	4·8	41	5·1	41	6·4	40	5·7	41	5·5	45	8·8	41	6·5	42	6·5	46	7·1	46	7·5	44	7·3	46	5·9	43	6·4
1891	45	6·3	36	4·4	35	4·3	41	5·5	43	6·7	38	4·8	39	5·1	36	5·0	39	5·9	42	7·2	46	6·1	45	8·4	42	6·5	41	6·2	41	5·8
1892	59	9·1	51	6·4	51	7·3	42	6·1	38	5·5	31	3·7	43	5·8	49	10·0	50	8·3	37	4·6	56	9·6	46	8·0	47	8·1	37	4·8	45	7·0
1893	41	5·2	36	5·1	28	3·2	22	2·3	23	3·1	20	1·7	26	3·1	30	5·4	27	4·2	21	3·0	33	4·9	30	4·8	28	4·5	17	2·1	27	3·8
1894	47	6·1	49	6·6	54	7·2	48	7·1	45	5·9	44	5·8	48	6·5	53	8·3	55	7·0	51	7·5	56	8·0	53	9·7	54	8·1	53	6·7	51	7·3
1895	49	8·9	38	4·9	32	4·1	27	2·9	28	4·1	26	2·9	30	3·8	40	4·7	30	4·4	26	4·3	42	4·3	33	4·6	34	4·5	31	3·6	32	4·2
Means for 5 years, 1891-1895.	48	7·1	42	5·5	40	5·2	36	4·8	35	5·1	32	3·8	37	4·9	42	6·7	40	6·0	35	5·3	46	6·6	41	7·1	41	6·3	36	4·7	39	5·6
1896	54	9·0	42	5·0	37	3·2	33	3·8	30	3·8	28	3·6	34	3·8	37	6·3	35	4·4	24	2·8	44	6·1	34	3·8	35	4·7	29	2·8	35	4·3
1897	49	8·7	47	8·0	39	5·4	39	5·3	40	6·7	35	5·4	40	6·2	54	9·9	47	8·0	44	8·0	55	10·6	53	10·0	51	9·3	49	6·3	46	7·7
1898	57	9·9	50	7·0	50	6·2	46	6·7	48	6·6	46	6·2	48	6·5	55	8·7	49	8·8	47	8·9	64	9·4	51	10·3	53	9·2	50	7·6	51	7·9
1899	51	8·9	52	8·4	47	7·1	40	6·0	42	6·4	37	5·3	44	6·6	51	12·1	48	8·5	43	8·1	52	10·0	46	8·7	48	9·5	41	6·3	46	8·1
1900	58	10·0	49	6·0	39	4·9	42	5·0	41	5·5	37	5·1	42	5·3	54	11·9	44	6·6	45	8·5	59	9·4	53	9·7	51	9·2	43	5·0	47	7·3
Means for 5 years, 1896-1900.	54	9·3	48	6·9	42	5·4	40	5·4	40	5·8	37	5·0	41	5·7	50	9·8	45	7·3	41	7·3	55	9·1	47	8·5	48	8·4	42	5·6	45	7·1
1901	50	8·3	45	6·4	34	4·1	36	4·2	35	4·3	31	4·1	36	4·6	45	10·3	40	5·1	35	7·1	49	8·3	41	7·8	42	7·7	38	6·8	39	6·2
1902	59	8·2	54	6·9	47	6·3	49	7·0	48	6·5	50	6·7	50	6·7	55	9·1	52	6·7	49	7·3	63	8·1	55	7·4	55	7·7	49	7·3	53	7·2
1903	50	9·2	46	5·2	40	5·8	33	7·2	38	7·5	35	8·1	38	6·8	41	7·5	42	5·8	37	8·5	50	6·1	43	7·4	43	7·1	43	5·9	41	7·0
1904	59	13·1	50	6·5	38	4·5	36	3·5	38	4·4	40	4·9	40	4·8	53	10·2	48	5·8	42	6·5	58	7·1	49	7·0	50	7·3	51	5·4	45	6·1
Means for 39 years, 1866-1904.	—	7·9	—	6·1	—	5·6	—	5·5	—	6·1	—	5·6	—	5·8	—	8·2	—	6·8	—	7·2	—	7·6	—	7·7	—	7·5	—	—	—	6·7
	MEAN TEMPERATURE.																													
Means for 5 years, 1866-1870.	48°·5		50°·4		49°·8		52°·7		53°·1		53°·1		51°·8		51°·3		51°·8		53°·0		52°·5		53°·0		52°·5		° —		52°·2	
1871-1875	48·2		49·3		49·6		51·0		52·0		52·1		50·9		51·1		51·3		53·0		51·6		53·3		52·1		—		51·5	
1876-1880	47·2		48·9		49·4		51·1		51·3		51·9		50·5		50·2		50·5		52·0		50·1		52·0		51·0		—		50·8	
1881-1885	46·8		49·5		50·0		51·8		51·8		52·9		51·2		50·0		50·8		51·6		50·6		51·6		50·9		52·7		51·1	
1886-1890	47·6		49·2		49·5		51·4		51·5		52·6		50·8		50·1		50·8		51·9		50·7		52·1		51·1		52·8		51·0	
1891	47·5		48·2		48·8		50·7		50·8		52·3		50·2		50·1		50·5		51·5		50·5		51·7		50·9		53·0		50·6	
1892	46·8		48·2		49·6		51·6		51·6		52·5		50·7		49·6		50·8		51·8		50·6		52·2		51·0		53·6		50·9	
1893	51·0		52·0		52·0		54·2		55·3		56·3		54·0		53·6		54·9		56·5		54·8		56·1		55·2		57·6		54·6	
1894	48·4		48·3		49·3		51·5		51·4		53·2		50·7		50·0		51·2		52·1		50·5		52·2		51·2		53·8		51·0	
1895	49·2		50·3		50·8		52·3		53·0		53·5		52·0		51·6		52·2		53·2		52·0		53·1		52·4		54·0		52·2	
Means for 5 years, 1891-1895.	48·6		49·4		50·1		52·1		52·4		53·6		51·5		51·0		51·9		53·0		51·7		53·1		52·1		54·4		51·8	
1896	49·8		51·7		51·8		52·6		53·4		54·2		52·7		52·5		53·5		54·4		53·1		54·4		53·6		55·4		53·2	
1897	47·4		48·3		49·6		52·1		52·0		53·7		51·1		49·9		51·2		53·1		50·0		52·5		51·3		54·4		51·2	
1898	48·4		49·2		49·9		51·4		51·3		52·6		50·9		50·7		51·3		52·2		51·0		52·4		51·5		53·7		51·2	
1899	47·7		48·6		49·9		51·7		51·8		53·3		51·1		50·2		51·5		52·9		50·9		52·9		51·7		54·7		51·4	
1900	48·6		49·2		50·4		51·9		51·7		52·5		51·1		51·0		51·3		51·9		51·4		52·7		51·7		51·7		51·4	
Means for 5 years, 1896-1900.	48·4		49·4		50·3		51·9		52·0		53·3		51·4		50·9		51·8		52·9		51·3		53·0		52·0		54·0		51·7	
1901	48·9		49·4		50·7		51·8		52·1		52·8		51·4		50·6		51·8		52·9		50·5		52·1		51·6		54·1		51·5	
1902	46·1		46·6		48·1		49·8		49·4		50·4		48·9		48·6		49·3		50·3		48·8		50·4		49·5		52·2		49·2	
1903	47·3		48·4		49·1		51·0		50·6		51·9		50·2		49·9		50·7		51·9		50·3		52·0		51·0		53·2		50·6	
1904	48·5		49·4		51·5		52·8		51·9		53·1		51·7		50·6		51·5		52·4		50·6		52·3		51·5		53·9		51·6	
Means for 39 years, 1866-1904.	47·9		49·4		49·8		51·7		51·9		52·7		51·1		50·6		51·2		52·6		51·1		52·5		51·6		—		51·4	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-NINE YEARS, 1866 TO 1904.

		Wheat Districts.	Grazing Districts.	Wheat and Grazing Districts combined.
Rainfall	Driest	Ins. 3·1 in 1870 and 1893	Ins. 4·2 in 1887	Ins. 3·8 in 1893
	Wettest	9·4 in 1879	10·3 in 1872 and 1878 / 10·2 in 1879 and 1882	9·8 in 1879
Temperature	Coldest	48°·4 in 1879	49°·1 in 1879 and 1885	48°·8 in 1879
	Warmest	54·0 in 1868 and 1893	55·2 in 1893	54·6 in 1893

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR PERIODS OF FOUR WEEKS OR FIVE WEEKS, AND THE PROGRESSIVE VALUES FROM JANUARY 3RD, 1904, FOR THE SECOND QUARTER, 1904.

1904. — FOUR WEEKS OR FIVE WEEKS ENDING.	Principal Wheat-producing Districts.														Principal Grazing Districts.												Channel Islands.		Means for Districts 1-10 combined	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing Districts.					
	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																												
Apr. 30 -	23	85	18	74	13	67	10	64	13	74	12	72	13	70	20	77	18	74	13	75	23	90	18	85	18	80	14	81	15	75
May 28 -	20	105	17	91	14	81	13	77	14	88	15	87	15	85	18	95	15	89	16	91	17	107	16	101	16	96	21	102	15	90
July 2 -	16	121	15	106	11	92	13	90	11	99	13	100	12	97	15	110	15	104	13	104	18	125	15	116	15	111	16	118	14	104
RAINFALL.—AMOUNTS IN INCHES.																												
Apr. 30 -	6·40	19·40	1·93	9·40	0·91	6·30	0·77	6·69	1·17	8·86	1·14	10·09	1·19	8·27	4·03	18·11	1·88	11·51	1·76	14·08	2·45	13·00	1·78	14·87	2·38	14·31	1·56	14·33	1·79	11·30
May 28 -	3·48	22·88	2·52	11·92	2·05	8·35	1·49	8·18	1·90	10·76	2·31	12·40	2·05	10·32	3·28	21·39	1·78	13·29	2·85	16·93	1·92	14·92	2·44	17·31	2·45	16·76	2·33	16·66	2·25	13·55
July 2 -	3·22	26·10	2·04	13·96	1·48	9·83	1·27	9·45	1·32	12·08	1·44	13·84	1·51	11·83	2·92	24·31	2·17	15·46	1·92	18·85	2·72	17·64	2·78	20·09	2·50	19·26	1·48	18·14	2·00	15·55
ACCUMULATED TEMPERATURE.—DAY DEGREES ABOVE 42° F.																												
Apr. 30 -	106	178	153	218	179	269	195	305	183	302	191	338	181	286	145	241	157	246	177	398	135	277	171	416	157	315	216	521	169	301
May 28 -	141	324	173	391	232	501	268	573	214	546	272	610	238	524	183	424	215	461	242	640	189	466	229	645	212	527	303	824	225	526
July 2 -	336	710	491	792	447	948	498	1071	467	1013	512	1122	435	989	454	878	489	930	491	1131	450	916	503	1148	473	1000	539	1363	489	995
ACCUMULATED TEMPERATURE.—DAY DEGREES BELOW 42° F.																												
Apr. 30 -	48	459	47	563	18	429	9	404	19	465	4	345	19	441	16	367	10	386	1	252	17	334	6	232	10	315	0	80	15	379
May 28 -	18	477	23	585	2	431	0	404	9	474	0	345	7	448	8	375	0	386	0	252	3	337	0	232	2	317	0	80	4	383
July 2 -	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																												
Apr. 30 -	112	278	143	317	161	335	163	375	144	308	153	364	153	340	140	299	141	316	153	360	126	295	132	325	139	319	172	443	146	330
May 28 -	136	414	128	445	138	473	146	521	129	437	141	505	136	476	123	422	135	451	131	491	146	441	155	480	138	457	156	599	137	467
July 2 -	231	645	220	665	208	681	236	757	213	655	253	758	227	703	250	672	254	705	237	758	210	651	229	709	242	699	302	901	234	701
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																												
Apr. 30 -	28	22	36	25	41	26	42	29	37	24	40	28	39	26	36	23	37	24	40	28	32	23	34	25	36	25	45	34	37	26
May 28 -	30	24	28	26	31	27	34	30	30	25	33	29	31	28	28	24	31	26	31	28	33	26	36	28	32	26	37	35	31	27
July 2 -	37	28	36	29	35	29	41	33	38	28	45	33	39	30	42	29	44	30	47	33	36	28	40	31	42	30	54	39	40	30

EXPLANATION OF TABLES.

TABLES I. and IA. are in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884-1903. The whole of the values for 1878-1904, however, have been corrected by information which may have been received since they were first published.

TABLE II. In this Table the values given do not apply to calendar months but to periods of four weeks or five weeks ending at the dates shown.

The figures given in the columns headed "From Jan. 3, 1904" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for the Grazing Districts" the values for the "Channel Islands" are not included.

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1904.

Twenty-seventh Year.
Vol. XXI. [*New Series.*] } Appendix I. THIRD QUARTER—July to Septemrer. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE THIRD QUARTER OF THE THIRTY-NINE YEARS, 1866 TO 1904.

YEARS.	0. Scotland, N.		Principal Wheat-producing Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		Principal Grazing Districts. 6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing Districts.		Channel Islands.		Means for Districts 1-10 combined.	
	RAINFALL.																													
	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.
Means for 5 years, 1866-1870.	—	10·6	—	8·8	—	6·3	—	6·1	—	7·4	—	7·3	—	7·2	—	10·9	—	9·9	—	10·1	—	9·8	—	8·6	—	9·8	—	—	—	8·6
1871-1875	—	13·1	—	10·7	—	8·4	—	7·5	—	9·1	—	8·0	—	8·7	—	13·2	—	12·9	—	14·1	—	12·2	—	10·8	—	12·6	—	—	—	10·7
1876-1880	—	9·0	—	8·9	—	9·2	—	9·0	—	10·1	—	8·7	—	9·2	—	11·7	—	12·3	—	11·6	—	11·1	—	10·7	—	11·5	—	—	—	10·4
1881-1885	56	7·8	51	7·9	46	7·3	45	7·4	45	7·5	44	6·6	46	7·3	53	11·8	49	9·8	52	10·0	60	10·3	53	10·2	53	10·4	54	7·6	50	8·9
1886-1890	60	10·3	51	7·4	46	7·6	45	7·3	43	6·8	40	6·9	45	7·2	51	10·9	47	9·3	46	9·1	58	10·3	50	9·1	50	9·7	46	7·1	48	8·5
1891	71	15·9	59	11·7	51	8·8	51	8·5	52	7·9	52	9·0	53	9·2	62	14·9	55	13·8	56	12·9	66	11·3	56	11·0	59	12·8	51	9·7	56	11·0
1892	66	15·0	51	8·3	44	6·6	40	8·2	46	7·5	44	8·4	45	7·8	53	15·5	53	12·1	51	10·0	62	12·0	53	13·2	54	12·5	43	7·2	50	10·2
1893	70	15·7	55	8·1	49	6·8	45	5·9	43	6·0	43	7·0	47	6·8	53	11·3	54	10·4	47	9·9	60	11·2	52	8·7	53	10·3	51	9·8	50	8·6
1894	53	10·5	48	8·9	49	6·2	54	7·6	44	6·8	51	9·2	49	7·7	40	7·3	44	8·0	52	10·7	54	6·8	45	8·8	47	8·3	54	11·9	48	8·0
1895	63	14·0	51	9·6	44	7·9	34	8·3	40	6·6	37	6·8	41	7·8	54	12·7	46	9·3	40	8·3	57	10·9	49	10·1	49	10·3	39	5·7	45	9·1
Means for 5 years, 1891-1895.	65	14·2	53	9·3	47	7·3	45	7·7	45	7·0	45	8·1	47	7·9	52	12·3	50	10·7	49	10·4	60	10·4	51	10·4	52	10·8	48	8·9	50	9·4
1896	59	13·5	59	9·3	52	6·9	49	8·2	51	8·3	46	9·1	51	8·4	60	13·9	55	11·3	49	10·0	64	13·5	56	12·7	57	12·3	50	9·6	54	10·4
1897	58	12·2	53	7·7	42	7·4	41	6·9	42	7·4	41	6·6	44	7·2	55	11·9	47	10·0	53	11·7	59	10·5	56	11·0	54	11·0	53	9·1	49	9·1
1898	57	13·1	43	6·5	30	3·8	21	2·9	25	4·2	19	2·8	28	4·0	49	11·1	40	7·2	29	5·4	51	8·9	42	9·0	42	8·3	34	3·7	35	6·2
1899	55	12·2	47	7·6	38	5·6	34	5·2	33	5·1	28	5·4	36	5·8	54	10·1	47	8·9	38	6·7	56	8·3	44	8·3	48	8·5	33	4·8	42	7·2
1900	60	12·9	50	9·6	35	7·3	32	5·5	31	6·1	29	4·1	35	6·5	57	14·7	42	9·5	43	6·6	52	8·8	41	9·7	47	9·9	40	4·3	41	8·2
Means for 5 years, 1896-1900.	58	12·8	50	8·1	39	6·2	35	5·7	36	6·2	33	5·6	39	6·4	55	12·3	46	9·4	42	8·1	56	10·0	48	10·1	49	10·0	42	6·3	44	8·2
1901	52	9·9	46	6·9	33	5·4	26	4·2	30	7·6	29	7·2	33	6·3	51	11·8	41	6·4	40	8·6	56	9·4	47	9·6	47	9·2	38	6·6	40	7·8
1902	65	10·1	53	6·9	46	5·4	40	6·8	45	6·4	43	6·8	45	6·5	52	12·6	52	6·4	46	7·4	62	9·6	46	7·8	52	8·8	47	5·8	49	7·7
1903	67	15·3	63	11·3	55	10·1	49	10·6	51	10·2	52	9·9	54	10·4	59	17·2	58	13·3	55	12·4	70	14·2	63	13·3	61	14·1	58	10·8	58	12·3
1904	58	11·5	48	7·3	35	6·1	33	5·6	34	7·4	35	5·7	37	6·4	43	12·4	44	7·8	44	9·5	60	11·7	50	11·1	48	10·5	49	7·5	43	8·5
Means for 39 years, 1866-1904.	—	11·2	—	8·7	—	7·4	—	7·2	—	7·7	—	7·3	—	7·7	—	12·1	—	10·4	—	10·4	—	10·7	—	10·0	—	10·7	—	—	—	9·2
	MEAN TEMPERATURE.																													
Means for 5 years, 1866-1870.	54°·4		57°·1		57°·0		59°·7		59°·7		60°·1		58°·7		57°·9		59°·0		61°·0		58°·5		59°·5		59°·2		° —		59°·0	
1871-1875	54·5		56·7		57·5		59·7		59·6		60·0		58·7		57·7		58·5		60·4		57·2		58·8		58·5		—		58·6	
1876-1880	54·1		56·4		57·6		59·6		59·3		60·3		58·6		57·2		58·1		59·9		56·8		59·0		58·2		—		58·4	
1881-1885	53·1		56·3		57·3		59·0		58·2		59·9		58·1		55·9		57·2		58·1		56·2		57·2		56·9		59·8		57·6	
1886-1890	52·8		55·1		56·7		58·7		57·9		59·6		57·6		55·4		57·0		58·2		56·1		57·6		56·9		60·1		57·3	
1891	54·0		55·7		57·0		58·4		57·5		59·2		57·6		56·1		57·4		57·4		56·6		57·3		57·0		59·8		57·3	
1892	52·1		53·5		55·4		57·6		56·5		59·2		56·4		54·4		56·2		57·6		55·1		57·0		56·1		60·6		56·3	
1893	55·0		56·3		58·4		60·5		60·2		61·7		59·4		57·3		59·9		60·4		58·1		59·5		59·0		62·7		59·2	
1894	54·5		55·1		56·5		58·0		57·2		59·3		57·2		55·5		57·2		57·6		55·9		56·7		56·6		60·1		56·9	
1895	55·4		56·9		59·4		60·8		60·0		61·7		59·8		57·2		59·3		59·8		57·5		58·3		58·4		62·4		59·1	
Means for 5 years, 1891-1895.	54·2		55·5		57·3		59·1		58·3		60·2		58·1		56·1		58·0		58·6		56·6		57·8		57·4		61·1		57·8	
1896	53·8		55·1		57·6		59·4		58·3		60·9		58·3		56·1		58·1		59·4		56·1		58·1		57·6		61·8		58·0	
1897	54·9		55·9		57·4		59·3		58·6		60·9		58·4		56·6		58·3		59·2		56·8		58·1		57·8		61·3		58·1	
1898	54·9		56·9		58·7		60·6		60·1		62·3		59·7		57·4		59·2		60·7		58·1		60·3		59·1		63·2		59·4	
1899	56·0		57·0		59·1		61·6		61·2		63·4		60·5		57·7		59·9		62·3		58·5		60·3		59·7		64·4		60·1	
1900	55·0		55·9		58·7		61·4		60·0		61·7		59·5		56·8		58·8		60·1		57·5		59·0		58·4		62·6		59·0	
Means for 5 years, 1896-1900.	54·9		56·2		58·3		60·5		59·6		61·8		59·3		56·9		58·9		60·3		57·4		59·2		58·5		62·7		58·9	
1901	56·7		57·9		59·9		61·4		60·8		61·9		60·4		58·2		60·0		60·8		57·6		59·5		59·2		62·5		59·8	
1902	52·6		53·8		56·1		58·5		57·3		59·6		57·1		55·0		56·7		58·6		55·9		58·2		56·9		61·0		57·0	
1903	52·9		53·8		56·3		58·8		57·2		59·4		57·1		55·3		56·8		58·3		55·6		57·4		56·7		60·4		56·9	
1904	54·4		55·3		58·5		60·2		58·6		60·3		58·6		56·4		58·1		59·5		56·3		58·0		57·7		61·1		58·2	
Means for 39 years, 1866-1904.	54·0		56·1		57·4		59·5		58·9		60·3		58·4		56·7		58·0		59·5		56·9		58·4		57·9		—		58·2	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-NINE YEARS, 1866 TO 1904.

		Wheat Districts.	Grazing Districts.	Wheat and Grazing Districts combined.
Rainfall	Driest	Ins. 4·0 in 1898	Ins. 6·4 in 1870	Ins. 5·7 in 1870
	Wettest	10·6 in 1879	14·2 in 1872	12·4 in 1879
Temperature	Coldest	55°·7 in 1888	55°·5 in 1888	55°·6 in 1888
	Warmest	60·9 in 1868	60·8 in 1868	60·9 in 1868

TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR PERIODS OF FOUR WEEKS OR FIVE WEEKS, AND THE PROGRESSIVE VALUES FROM JANUARY 3RD, 1904, FOR THE THIRD QUARTER, 1904.

1904. — Four Weeks or Five Weeks ending.	Principal Wheat-producing Districts.														Principal Grazing Districts.														Channel Islands.		Means for Districts 1-10 combined.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing Districts.							
	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
July 30 -	13	134	10	116	10	102	8	98	9	108	9	109	9	106	12	122	12	116	14	118	17	142	16	132	14	125	14	132	11	115
Aug. 27 -	23	157	21	137	14	116	10	108	14	122	11	120	14	120	18	140	19	135	15	133	24	166	17	149	19	144	15	147	17	132
Oct. 1 -	22	179	17	154	11	127	15	123	11	133	15	135	14	134	13	153	13	148	15	148	19	185	17	166	15	159	20	167	15	147
RAINFALL.—AMOUNTS IN INCHES.																														
July 30 -	1·59	27·69	1·27	15·23	1·79	11·62	2·27	11·72	2·81	14·89	1·51	15·35	1·93	13·76	2·90	27·21	1·66	17·12	3·84	22·69	3·15	20·79	3·32	23·41	2·97	22·23	2·24	20·38	2·45	18·00
Aug. 27 -	4·43	32·12	3·50	18·73	2·51	14·13	1·34	13·06	2·57	17·46	1·80	17·15	2·34	16·10	4·66	31·87	3·77	20·89	2·70	25·39	5·01	25·80	3·55	26·96	3·94	26·17	2·08	22·46	3·14	21·14
Oct. 1 -	5·47	37·59	2·48	21·21	1·79	15·92	1·99	15·05	1·99	19·45	2·42	19·57	2·13	18·23	4·85	36·72	2·34	23·23	2·98	28·37	3·54	29·34	4·24	31·20	3·59	29·76	3·13	25·59	2·86	24·00
ACCUMULATED TEMPERATURE.—DAY DEGREES ABOVE 42° F.																														
July 30 -	374	1084	412	1204	529	1477	597	1668	577	1590	599	1721	543	1532	458	1336	524	1454	571	1702	455	1371	499	1647	501	1501	592	1955	522	1517
Aug. 27 -	333	1417	375	1579	449	1926	522	2190	446	2036	518	2239	462	1994	383	1719	433	1887	476	2178	385	1756	439	2086	423	1924	534	2489	443	1960
Oct. 1 -	389	1806	383	1962	477	2403	494	2684	438	2474	500	2739	458	2452	434	2153	473	2360	504	2682	428	2184	479	2565	464	2388	581	3070	461	2421
ACCUMULATED TEMPERATURE.—DAY DEGREES BELOW 42° F.																														
July 30 -	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
Aug. 27 -	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
Oct. 1 -	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
July 30 -	137	782	120	785	178	859	249	1006	187	842	240	998	195	898	149	821	183	888	187	945	142	793	161	870	164	863	237	1138	179	880
Aug. 27 -	116	898	136	921	175	1034	211	1217	184	1026	220	1218	185	1083	148	969	172	1060	209	1154	121	914	154	1024	161	1024	220	1358	173	1053
Oct. 1 -	151	1049	151	1072	198	1232	219	1426	191	1217	205	1423	193	1276	186	1155	195	1255	201	1355	171	1085	159	1183	182	1207	229	1587	188	1241
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
July 30 -	29	28	26	28	39	31	56	37	42	31	54	36	43	32	32	30	40	32	42	34	31	29	36	32	36	31	54	42	40	32
Aug. 27 -	27	28	32	29	42	32	52	38	45	32	54	39	45	34	35	30	42	33	52	37	29	29	38	32	39	32	55	43	42	33
Oct. 1 -	34	28	34	29	45	34	50	40	43	34	47	40	44	35	42	32	44	35	46	38	39	30	36	33	41	33	52	44	43	34

EXPLANATION OF TABLES.

TABLES I. and IA. are in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884-1903. The whole of the values for 1878-1904, however, have been corrected by information which may have been received since they were first published.

TABLE II. In this Table the values given do not apply to calendar months but to periods of four weeks or five weeks ending at the dates shown.

The figures given in the columns headed "From Jan. 3, 1904" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for "the Grazing Districts" the values for the "Channel Islands" are not included.

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT. 1904.

Twenty-seventh Year. Vol. XXI. [*New Series.*] } APPENDIX I. FOURTH QUARTER—OCTOBER TO DECEMBER. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE FOURTH QUARTER OF THE THIRTY-NINE YEARS, 1866 TO 1904.

YEARS.	Principal Wheat-producing Districts.												Principal Grazing Districts.												Channel Islands.		Means for Districts 1–10 combined.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing Districts.					
	RAINFALL.																											
	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.
Means for 5 years, 1866–1870.	—	18·4	—	8·8	—	7·7	—	7·4	—	7·6	—	8·3	—	8·0	—	12·9	—	14·7	—	14·6	—	12·6	—	10·5	—	13·1	—	—	—	10·6
1871–1875	—	17·2	—	10·4	—	7·7	—	7·2	—	7·9	—	9·9	—	8·6	—	13·1	—	13·3	—	16·3	—	11·1	—	12·1	—	13·2	—	—	—	10·9
1876–1880	—	13·8	—	9·1	—	8·1	—	7·2	—	8·1	—	9·5	—	8·4	—	12·8	—	12·0	—	14·1	—	11·0	—	11·3	—	12·2	—	—	—	10·3
1881–1885	68	12·7	54	7·2	55	7·3	59	8·8	55	8·6	52	8·9	55	8·2	58	15·8	56	11·0	62	13·7	64	11·8	61	11·8	60	12·8	67	12·4	58	10·5
1886–1890	71	15·0	57	8·5	53	7·3	51	6·6	50	7·2	52	8·8	53	7·7	58	15·3	59	10·7	62	13·6	64	12·1	59	12·6	60	12·9	69	11·9	57	10·3
1891	61	15·9	51	9·7	52	7·8	62	9·0	60	11·4	62	13·6	57	10·3	60	20·8	58	14·2	64	18·2	64	12·4	61	16·5	61	16·4	66	14·6	59	13·4
1892	65	14·5	53	8·0	55	7·3	49	8·9	48	6·1	47	8·6	50	7·8	57	13·0	56	10·5	57	10·1	68	10·5	59	11·3	59	11·1	63	10·3	55	9·5
1893	76	24·2	57	8·2	52	5·9	55	7·7	50	6·7	51	8·9	53	7·5	65	16·4	61	10·4	56	12·1	65	10·1	57	10·4	61	11·9	61	9·2	57	9·7
1894	66	15·8	48	7·4	54	7·0	56	7·7	53	8·9	52	10·8	53	8·4	62	15·3	58	11·4	55	16·2	60	10·9	53	14·1	58	13·6	58	12·5	56	11·0
1895	66	16·6	58	10·6	55	8·2	52	7·4	53	8·6	56	10·5	55	9·1	53	14·2	59	11·9	65	16·6	63	12·7	62	13·8	60	13·8	74	15·3	58	11·5
Means for 5 years, 1891–1895.	67	17·4	53	8·8	54	7·2	55	8·1	53	8·3	54	10·5	54	8·6	59	15·9	58	11·7	59	14·6	64	11·3	58	13·2	60	13·3	64	12·3	57	11·0
1896	71	15·9	62	10·4	68	11·1	61	8·0	58	8·2	57	9·3	61	9·4	58	13·1	57	11·2	63	14·0	62	10·4	58	11·5	60	12·0	76	12·9	61	10·7
1897	59	14·7	47	7·7	43	5·2	37	3·9	42	6·0	37	5·5	41	5·7	55	14·4	44	11·2	44	11·0	54	10·4	49	15·0	49	12·4	46	8·9	45	9·1
1898	71	24·4	59	11·4	52	8·5	48	7·2	50	8·3	48	9·2	51	8·9	62	16·1	63	10·5	64	15·3	69	11·7	64	13·5	64	13·4	68	12·7	58	11·2
1899	67	18·5	48	8·6	40	6·3	38	6·6	35	6·9	34	8·4	39	7·4	59	16·6	41	9·3	45	11·4	58	11·2	50	13·2	51	12·3	46	9·9	45	9·9
1900	76	22·3	71	12·8	60	9·2	60	5·9	61	8·3	59	8·8	62	9·0	72	23·6	64	13·4	69	15·9	71	15·2	67	18·8	69	17·4	71	12·2	66	13·2
Means for 5 years, 1896–1900.	69	19·2	57	10·2	53	8·1	49	6·3	49	7·5	47	8·2	51	8·1	61	16·8	54	11·1	57	13·5	63	11·8	58	14·4	59	13·5	61	11·3	55	10·8
1901	71	15·5	55	8·7	46	9·5	44	7·4	41	6·9	41	6·8	45	7·9	64	17·5	53	11·8	49	9·9	66	12·6	55	10·9	57	12·5	58	10·3	51	10·2
1902	62	15·9	59	8·7	51	6·5	48	4·7	50	7·4	51	7·5	52	7·0	62	18·0	56	9·7	56	12·0	62	10·7	62	12·9	60	12·7	68	10·2	56	9·9
1903	65	16·6	63	10·0	55	10·0	52	7·6	57	9·3	56	11·0	57	9·6	66	19·1	63	13·4	65	15·5	71	12·7	66	12·3	66	14·6	74	13·2	61	12·1
1904	74	14·4	47	4·7	37	4·3	41	4·6	40	4·2	42	6·7	41	4·9	53	11·4	44	5·1	47	9·0	65	9·1	50	7·6	52	9·0	61	10·3	47	7·0
Means for 39 years, 1866–1904.	—	16·2	—	8·9	—	7·6	—	7·2	—	7·8	—	9·0	—	8·1	—	14·8	—	11·9	—	14·1	—	11·6	—	12·1	—	12·9	—	—	—	10·5
	MEAN TEMPERATURE.																											
Means for 5 years, 1866–1870.	42°1		42°1		42°5		43°6		43°4		44°2		43°2		43°2		43°8		47°0		44°0		45°2		44°6		°		43°9	
1871–1875	42·4		41·8		42·7		42·9		42·8		43·6		42·8		42·7		43·6		46·3		43·3		45·4		44·3		—		43·6	
1876–1880	41·7		41·6		42·3		42·9		42·4		44·2		42·7		42·9		43·7		47·1		43·6		45·6		44·6		—		43·7	
1881–1885	42·6		42·0		43·4		43·4		43·0		45·1		43·4		43·5		44·1		46·5		43·9		45·6		44·7		49·1		44·1	
1886–1890	42·1		41·8		42·6		42·3		42·1		44·1		42·6		43·6		43·6		45·2		44·2		45·5		44·0		48·7		43·5	
1891	42·0		40·8		42·3		43·6		42·5		45·6		43·0		43·4		43·7		45·9		43·3		44·8		44·2		49·4		43·6	
1892	40·2		39·1		40·9		41·5		40·5		43·5		41·1		41·5		42·1		44·5		42·9		44·6		43·1		48·2		42·1	
1893	41·9		42·0		44·0		43·9		43·4		45·3		43·7		44·1		45·3		46·0		44·0		45·5		45·0		49·4		44·4	
1894	44·0		42·7		44·7		45·5		45·2		47·4		45·1		45·6		46·7		48·0		45·6		47·3		46·6		51·2		45·9	
1895	41·2		40·5		43·0		43·8		42·9		46·0		43·2		43·0		44·2		46·6		43·0		45·3		44·4		51·0		43·8	
Means for 5 years, 1891–1895.	41·9		41·0		43·0		43·7		42·9		45·6		43·2		43·5		44·4		46·2		43·8		45·5		44·7		49·8		44·0	
1896	41·2		40·5		41·9		41·8		40·9		43·5		41·7		42·1		42·5		43·3		42·2		43·3		42·7		47·5		42·2	
1897	43·2		42·9		45·0		44·4		44·2		47·4		44·8		45·8		46·6		48·1		46·2		48·4		47·0		51·5		45·9	
1898	44·3		44·2		47·0		47·4		46·7		49·3		46·9		46·8		48·1		49·5		47·1		48·8		48·1		52·7		47·5	
1899	44·0		42·8		43·9		44·0		42·9		46·2		44·0		44·7		44·8		47·0		46·1		47·6		46·0		51·1		45·0	
1900	43·4		43·2		46·1		46·7		46·0		48·3		46·1		45·3		46·9		48·2		45·5		47·4		46·7		52·2		46·4	
Means for 5 years, 1896–1900.	43·2		42·7		44·8		44·9		44·1		46·9		44·7		44·9		45·8		47·2		45·4		47·1		46·1		51·0		45·4	
1901	41·8		41·1		43·0		43·5		42·3		45·0		43·0		43·2		44·1		45·2		44·4		45·5		44·5		49·6		43·8	
1902	43·9		42·9		44·9		44·7		44·1		45·8		44·5		45·2		45·3		46·6		45·9		47·5		46·1		49·9		45·3	
1903	41·2		40·7		43·0		44·1		42·9		45·4		43·2		43·1		43·9		46·1		43·9		45·1		44·4		49·5		43·8	
1904	42·3		41·9		43·4		44·0		42·6		45·3		43·4		43·7		44·1		46·0		45·0		47·0		45·2		50·5		44·3	
Means for 39 years, 1866–1904.	42·3		41·8		43·1		43·5		43·0		44·9		43·3		43·5		44·2		46·4		44·1		45·7		44·8		—		44·1	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-NINE YEARS, 1866 TO 1904.

		Wheat Districts.	Grazing Districts.	Wheat and Grazing Districts combined.
Rainfall	Driest	Ins. 3·4 in 1879	Ins. 5·0 in 1879	Ins. 4·2 in 1879
	Wettest	13·1 in 1872	18·6 in 1872	15·9 in 1872
Temperature	Coldest	40°3 in 1887	41°9 in 1887	41°1 in 1887
	Warmest	46·9 in 1898	48·1 in 1898	47·5 in 1898

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR PERIODS OF FOUR WEEKS OR FIVE WEEKS, AND THE PROGRESSIVE VALUES FROM JANUARY 3RD, 1904, FOR THE FOURTH QUARTER, 1904.

1904. — Four Weeks or Five Weeks ending.	Principal Wheat-producing Districts.														Principal Grazing Districts.														Channel Islands.		Means for Districts 1-10 combined.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing Districts.							
	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.	For the Period.	From Jan. 3, 1904.
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
Oct. 29 -	23	202	12	166	8	135	10	133	10	143	12	147	10	144	16	169	11	159	13	161	20	205	16	182	15	174	21	188	12	159
Nov. 26 -	23	225	13	179	12	147	12	145	11	154	10	157	12	156	16	185	13	172	13	174	21	226	13	195	15	189	16	204	14	173
Dec. 31 -	28	253	22	201	17	164	19	164	19	173	20	177	19	175	21	206	20	192	21	195	24	250	21	216	21	210	24	228	20	193
RAINFALL.—AMOUNTS IN INCHES.																														
Oct. 29 -	3·87	41·46	0·98	22·19	0·51	16·43	1·04	16·09	0·57	20·02	2·16	21·73	1·05	19·28	3·12	39·84	1·97	25·20	2·37	30·74	2·33	31·67	2·45	33·65	2·45	32·21	3·51	29·10	1·75	25·75
Nov. 26 -	3·90	45·36	1·23	23·42	1·99	18·42	1·52	17·61	1·73	21·75	1·51	23·24	1·60	20·88	3·49	43·33	2·66	27·86	2·85	33·59	3·64	35·31	2·37	36·02	3·00	35·21	2·55	31·65	2·30	28·05
Dec. 31 -	6·65	52·01	2·45	25·87	1·77	20·19	2·06	19·67	1·88	23·63	3·07	26·31	2·25	23·13	4·78	48·11	3·43	31·29	3·78	37·37	3·08	38·39	2·82	38·84	3·58	38·79	4·25	35·90	2·92	30·97
ACCUMULATED TEMPERATURE.—DAY DEGREES ABOVE 42° F.																														
Oct. 29 -	164	1970	187	2149	221	2624	240	2924	221	2695	257	2996	225	2677	210	2363	223	2583	264	2946	207	2391	270	2835	235	2623	377	3447	230	2651
Nov. 26 -	71	2041	84	2233	127	2751	129	3053	101	2796	133	3129	115	2792	113	2476	120	2703	144	3090	124	2515	160	2995	132	2755	224	3671	123	2774
Dec. 31 -	35	2076	18	2251	33	2784	37	3090	34	2830	90	3219	42	2834	29	2505	48	2751	97	3187	70	2585	150	3145	79	2834	188	3859	60	2834
ACCUMULATED TEMPERATURE.—DAY DEGREES BELOW 42° F.																														
Oct. 29 -	13	490	22	607	11	442	0	404	20	494	0	345	11	459	3	378	2	388	0	252	1	338	0	232	1	318	0	80	6	389
Nov. 26 -	105	595	109	716	75	517	78	482	108	602	64	409	87	546	78	456	55	443	53	305	41	379	38	270	53	371	8	88	70	459
Dec. 31 -	138	733	173	889	175	692	165	647	203	805	82	491	159	705	132	588	139	582	82	387	95	474	59	329	101	472	1	89	130	589
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
Oct. 29 -	66	1115	101	1173	104	1336	107	1543	85	1302	89	1512	97	1373	80	1235	98	1353	84	1439	72	1157	79	1262	83	1290	106	1693	90	1331
Nov. 26 -	38	1153	68	1241	61	1397	61	1604	47	1349	66	1578	61	1434	50	1285	49	1402	56	1495	35	1192	40	1302	46	1336	70	1763	54	1385
Dec. 31 -	22	1175	42	1283	52	1449	53	1657	36	1385	46	1624	46	1480	39	1324	40	1442	44	1539	47	1239	53	1355	45	1381	67	1830	46	1431
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
Oct. 29 -	23	28	35	30	36	34	37	40	29	33	30	39	33	35	28	31	34	35	28	37	25	30	27	32	28	33	36	44	31	34
Nov. 26 -	17	28	30	30	26	34	25	39	19	33	27	38	25	35	21	31	20	34	22	36	15	29	16	31	19	32	28	43	23	33
Dec. 31 -	10	27	18	29	20	33	20	38	14	31	17	37	18	34	16	30	15	33	16	35	19	28	20	31	17	31	24	42	18	32

EXPLANATION OF TABLES.

TABLES I. and IA. are in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884-1903. The whole of the values for 1878-1904, however, have been corrected by information which may have been received since they were first published.

TABLE II. In this Table the values given do not apply to calendar months but to periods of four weeks or five weeks ending at the dates shown.

The figures given in the columns headed "From Jan. 3, 1904" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for "the Grazing Districts" the values for the "Channel Islands" are not included.

SUMMARY OF THE WEEKLY WEATHER REPORT, 1904.

Twenty-seventh Year.
Vol. XXI. [*New Series.*] } Appendix I. VALUES FOR THE WHOLE YEAR. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE FOR THE WHOLE YEAR DURING THE THIRTY-NINE YEARS, 1866 TO 1904.

YEARS.	Principal Wheat-producing Districts.														Principal Grazing Districts.												Channel Islands.		Means for Districts 1-10 combined.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing Districts.					
	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.	Days.	Ins.
RAINFALL.																														
Means for 5 years, 1866-1870.	—	50·4	—	32·9	—	25·0	—	23·8	—	27·3	—	29·2	—	27·6	—	43·5	—	42·9	—	45·4	—	41·7	—	37·4	—	42·2	—	—	—	34·9
1871-1875	—	47·8	—	35·4	—	26·5	—	24·6	—	30·1	—	31·4	—	29·6	—	44·7	—	44·0	—	52·0	—	40·3	—	39·6	—	44·1	—	—	—	36·9
1876-1880	—	38·6	—	32·0	—	29·8	—	29·0	—	32·2	—	32·5	—	31·1	—	44·2	—	41·4	—	44·6	—	39·6	—	41·9	—	42·3	—	—	—	36·7
1881-1885	241	37·1	198	26·4	188	25·5	187	27·2	186	29·0	177	27·4	187	27·1	216	48·1	198	36·6	211	40·7	236	38·6	217	41·7	216	41·1	222	33·8	202	34·1
1886-1890	251	44·3	203	27·7	187	24·9	184	23·7	176	25·6	177	26·8	185	25·7	207	45·7	197	33·3	200	37·4	223	37·9	204	38·7	206	38·6	217	32·0	196	32·2
1891	242	52·8	184	30·9	181	24·6	197	26·8	192	30·1	190	33·2	188	29·1	205	49·9	186	38·3	200	45·1	225	35·3	204	41·5	203	42·0	201	36·7	197	35·6
1892	253	49·8	201	28·2	197	25·6	180	27·2	176	23·1	160	24·4	183	25·7	206	46·5	205	37·2	192	31·1	232	38·0	203	40·1	208	38·6	195	29·2	196	32·2
1893	252	57·9	199	27·3	173	20·4	171	21·1	164	20·8	162	23·5	174	22·6	205	43·1	191	31·4	173	33·7	217	34·0	189	32·6	195	35·0	185	28·4	185	28·8
1894	234	53·5	201	33·9	208	25·8	205	26·6	196	27·4	196	32·1	201	29·2	219	49·5	213	36·3	214	44·9	234	38·0	212	43·5	218	42·4	221	38·6	210	35·8
1895	237	49·3	195	31·5	189	27·7	165	24·2	163	24·7	160	24·9	174	26·6	196	38·3	183	32·3	177	37·3	218	35·6	192	38·0	193	36·3	199	31·9	184	31·5
Means for 5 years, 1891-1895.	244	52·7	196	30·4	190	24·8	184	25·2	178	25·2	174	27·6	184	26·6	206	45·5	196	35·1	191	38·4	225	36·2	200	39·1	204	38·9	200	33·0	194	32·8
1896	252	56·2	213	29·5	196	25·3	190	24·9	184	24·6	173	25·8	191	26·0	216	45·4	200	35·2	186	33·7	226	39·2	199	36·8	205	38·1	208	30·2	198	32·1
1897	231	46·6	204	30·3	183	24·4	174	23·0	178	28·0	168	26·7	180	26·5	222	47·5	199	37·1	206	43·7	234	41·1	219	47·8	215	43·4	218	35·9	201	35·0
1898	262	66·1	204	29·7	176	21·9	156	20·3	162	22·0	150	21·7	170	23·1	228	46·4	202	33·8	188	35·6	245	37·8	202	39·4	213	38·6	208	28·4	192	30·9
1899	233	53·3	200	33·0	173	24·3	158	22·4	154	25·2	137	25·0	164	26·0	221	51·9	187	35·6	175	38·7	228	38·4	191	42·7	200	41·5	169	29·1	182	33·8
1900	260	56·9	224	37·2	188	29·2	189	23·9	183	28·5	175	27·3	192	29·2	237	62·4	202	38·7	213	44·5	242	41·6	217	48·1	222	47·1	219	33·9	207	38·2
Means for 5 years, 1896-1900.	248	55·8	209	31·9	183	25·0	173	22·9	172	25·7	161	25·3	180	26·2	225	50·7	198	36·1	194	39·2	235	39·6	206	43·0	212	41·7	204	31·5	196	34·0
1901	237	44·3	198	28·5	168	24·6	158	20·9	155	25·4	146	24·2	165	24·7	210	49·6	185	30·0	171	34·9	230	38·4	191	36·9	197	38·0	197	31·7	181	31·4
1902	254	48·8	216	27·2	185	21·9	179	21·7	181	24·9	179	25·9	188	24·3	229	53·0	213	29·3	198	34·3	250	37·1	212	37·2	220	38·2	215	29·2	204	31·2
1903	257	65·7	232	39·1	197	31·0	178	30·1	194	34·4	197	35·8	200	34·1	241	66·4	226	44·4	221	48·6	265	47·2	242	48·7	239	51·1	241	38·7	220	42·6
1904	253	52·0	201	26·0	164	20·3	164	19·6	173	23·7	177	26·3	175	23·2	206	48·1	192	31·3	195	37·3	250	38·5	216	38·8	210	38·8	228	36·0	193	31·0
Means for 39 years, 1866-1904.	—	47·3	—	30·9	—	25·8	—	25·0	—	27·8	—	28·5	—	27·6	—	46·9	—	38·0	—	42·1	—	39·3	—	40·2	—	41·3	—	—	—	34·5
MEAN TEMPERATURE.																														
Means for 5 years, 1866-1870.	45°9		47°2		47°1		49°0		49°1		49°5		48°4		48°1		48°8		51°3		48°9		50°0		49°4		° —		48°9	
1871-1875	46°3		47°1		47°4		48°4		48°8		49°3		48°2		48°1		48°6		50°9		48°4		50°3		49°3		—		48°8	
1876-1880	45°4		46°3		47°1		48°3		48°2		49°3		47°8		47°6		48°1		50°6		47°9		50°1		48°9		—		48°4	
1881-1885	45°3		46°6		47°5		48°5		48°2		49°8		48°1		47°4		48°2		49°7		48°0		49°4		48°5		51°6		48°3	
1886-1890	45°2		46°1		46°8		47°4		47°3		48°8		47°3		47°1		47°6		48°9		47°9		49°3		48°2		51°2		47°8	
1891	45°5		45°7		46°5		47°5		47°2		48°9		47°2		47°3		47°8		48°8		47°8		49°0		48°1		51°3		47°7	
1892	43°9		44°2		45°7		46°8		46°3		48°4		46°3		45°9		46°8		48°4		47°0		48°5		47°3		51°4		46°8	
1893	46°7		47°3		48°7		49°6		49°8		51°2		49°3		48°9		50°3		51°4		49°8		51°2		50°3		53°9		49°8	
1894	46°5		46°2		47°6		48°8		48°6		50°4		48°3		48°0		49°3		50°1		48°5		50°0		49°2		52°7		48°8	
1895	45°0		45°1		47°0		47°8		47°4		49°1		47°3		46°7		47°7		49°0		47°3		48°8		47°9		51°8		47°6	
Means for 5 years, 1891-1895.	45°5		45°7		47°1		48°1		47°9		49°6		47°7		47°4		48°4		49°5		48°1		49°5		48°6		52°2		48°2	
1896	46°4		46°9		48°1		48°7		48°5		50°3		48°5		48°3		49°2		50°3		48°7		50°3		49°4		52°9		49°0	
1897	45°8		46°1		47°9		48°9		48°7		50°9		48°5		48°0		49°1		50°7		48°4		50°5		49°3		53°2		48°9	
1898	46°9		47°7		49°2		50°0		49°7		51°6		49°6		49°2		50°2		51°4		49°7		51°5		50°4		53°9		50°0	
1899	46°5		46°6		48°3		49°6		49°2		51°4		49°0		48°3		49°5		51°4		49°3		51°2		49°9		54°3		49°5	
1900	45°9		46°1		48°2		49°5		48°9		50°6		48°7		47°8		48°9		50°2		48°4		49°8		49°0		53°4		48°9	
Means for 5 years, 1896-1900.	46°3		46°7		48°3		49°3		49°0		51°0		48°9		48°3		49°4		50°8		48°9		50°6		49°6		53°5		49°3	
1901	46°4		46°4		47°9		48°5		48°1		49°6		48°1		47°8		48°6		49°7		48°1		49°5		48°7		52°4		48°4	
1902	45°1		45°2		47°2		48°2		47°7		49°3		47°5		47°1		47°9		49°4		48°0		49°8		48°4		52°1		48°0	
1903	45°3		45°7		47°7		49 3		48°3		50°2		48°2		47°6		48°6		50°2		48°1		49°7		48°8		52°5		48°5	
1904	45°9		46°0		48°1		49°1		48°0		49°7		48°2		47°6		48°3		49°9		48°0		49°8		48°7		51°5		48°5	
Means for 39 years, 1866-1904.	45°7		46°4		47°4		48°5		48°3		49°6		48°0		47°7		48°5		50°2		48°3		49°9		48°9		—		48°5	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST YEARS FOR THE THIRTY-NINE YEARS, 1866 TO 1904.

		Wheat Districts.	Grazing Districts.	Wheat and Grazing Districts combined.
Rainfall	Driest	Ins. 21·0 in 1887	Ins. 30·5 in 1887	Ins. 25·8 in 1887
	Wettest	40·2 in 1872	58·0 in 1872	49·1 in 1872
Temperature	Coldest	45°5 in 1879	46°9 in 1879	46°2 in 1879
	Warmest	50·1 in 1868	50·7 in 1868	50·4 in 1868

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NOTES.

1.—Rainfall.

The values for the Rainfall in the Districts given in Table I. in the various Quarterly and Annual Summaries have been obtained from the observations published in the Weekly Weather Report for the years 1878 to 1904, supplemented by observations taken at the following stations for the years 1866–1877.

Districts.		Stations.
0. SCOTLAND, N.		Loch Broom.
		Helmsdale.
		Sandwick Manse.
1. SCOTLAND, E.		Inverness.
		Aberdeen.
		Ballater.
		Logierait.
		Stirling.
		Hawick.
2. ENGLAND, N.E.		North Shields.
		York.
		Grimsby.
		Boston.
3. ENGLAND, E.	1866 to 1875.	Fakenham.
		Beccles.
		Witham.
		Bury St. Edmunds.
	1876 & 1877.	Great Yarmouth.
		Cambridge.
		Bury St. Edmunds.
4. MIDLAND COUNTIES		Leicester.
		Derby.
		Tenbury.
		Shiffnal.
		Cirencester.
		Banbury.
		Hitchin.
5. ENGLAND, S.		Bridport.
		Selborne.
		Maidstone.
		London (Camden Town).
6. SCOTLAND, W.		Dumfries.
		Ayr.
		Castle Toward.
7. ENGLAND, N.W., and N. WALES		Llandudno.
		Manchester.
		Skipton.
8. ENGLAND, S.W., and S. WALES		Barnstaple.
		Bodmin.
		Haverfordwest.
		Rhayader.
9. IRELAND, N.		Galway.
		Bunninadden, Co. Sligo. (Doo Castle.)
		Waringstown.
		Strabane.
10. IRELAND, S.		Cork.
		Waterford.
		Killaloe.
		Portarlington.
		Monkstown, Co. Dublin.

The values for these stations were extracted chiefly from Symons' Monthly Meteorological Magazine, or from the Reports of the Rainfall Committee of the British Association, 1868–1876.

2.—Temperature.

The values for Temperature in the several Districts given in Table I. of the various Quarterly and Annual Summaries have been obtained from the observations published in the Weekly Weather Report for the years 1878–1904, supplemented by observations taken at the following stations for the years 1866–1877.

Districts.		Stations.
0. SCOTLAND, N.		Sandwick Manse.
		Stornoway.
		Dunrobin.
1. SCOTLAND, E.		Culloden.
		Aberdeen.
		Perth.
		Leith.
2. ENGLAND, N.E.		Bywell.
		North Shields.
		Hull.
3. ENGLAND, E.		Royston.
		Holkham.
		Norwich.
		Wisbeach.
		Somerleyton.
4. MIDLAND COUNTIES		Derby.
		Nottingham.
		Cardington.
		Oxford.
5. ENGLAND, S.		Marlborough.
		Greenwich.
		Streatley.
		London (Camden Town).
		Weybridge.
		Strathfield Turgiss.
		Osborne.
		Bournemouth.
		Worthing.
6. SCOTLAND, W.		Greenock.
		Cockermouth.
		Silloth.
		Carlisle.
7. ENGLAND, N.W., and N. WALES		Stonyhurst.
		Bradford.
		Leeds.
		Eccles.
		Liverpool.
		Llandudno.
8. ENGLAND, S.W., and S. WALES		Gloucester.
		Taunton.
		Barnstaple.
		Truro.
		Helston.
9. IRELAND, N.	1866 to 1873.	Belfast.
		Milltown (Banbridge).
		Armagh.†
		Athlone.*
	1874 to 1877.	Moville.
		Milltown.
		Armagh.
		Donaghadee.
10. IRELAND, S.	1866 to 1873.	Dublin.*
		Curragh Camp.
		Buttevant.*
		Cork.
		Valencia.†
	1874 to 1877.	Kingstown.
		Parsonstown.
		Cork.
		Roche's Point.
		Valencia.

The values for these Stations were obtained mainly from the returns of the Registrar General, the Journals of the Scottish Meteorological Society, the reports of the Army Medical Department, and the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.

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* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,

W. N. SHAW, Secretary.

WEEKLY WEATHER REPORT, 1904.

Twenty-seventh Year. VOL. XXI. [*New Series.*] } APPENDIX II.] { RAIN-DAYS, RAINFALL, ACCUMULATED TEMPERATURE AND SUNSHINE. [*Price* 1*s.*

TABLE I.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF RAIN-DAYS IN EACH DISTRICT DURING THE YEAR 1904.

1904. LIMITS OF WEEKS.	0. SCOTLAND, N.		Principal Wheat-producing Districts. 1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		Principal Grazing Districts. 6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR GRAZING DISTRICTS.		CHANNEL ISLANDS.		MEANS FOR DISTRICTS 1-10 COMBINED.	
	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.
NUMBERS OF RAIN-DAYS—1904.																														
1904.																														
Jan. 3-9	5	5	4	4	4	4	4	4	6	6	5	5	5	5	5	5	5	5	6	6	5	5	6	6	6	6	7	7	6	6
10-16	7	12	5	9	4	8	4	8	6	12	6	11	5	10	6	11	6	11	6	12	7	12	6	12	6	12	7	14	5	11
17-23	5	17	2	11	2	10	5	13	3	15	4	15	3	13	5	16	4	15	2	14	5	17	4	16	4	16	4	18	4	15
24-30	5	22	5	16	4	14	5	18	5	20	6	21	5	18	5	21	5	20	6	20	5	22	6	22	5	21	6	24	5	20
Jan. 31-Feb. 6	5	27	7	23	7	21	6	24	7	27	7	28	6	24	4	25	6	26	7	27	6	28	5	27	6	27	7	31	6	26
Feb. 7-13	5	32	5	28	5	26	6	30	6	33	7	35	6	30	5	30	5	31	7	34	5	33	7	34	6	33	7	38	6	32
14-20	6	38	4	32	5	31	5	35	5	38	6	41	5	35	5	35	6	37	6	40	6	39	6	40	6	39	7	45	5	37
21-27	5	43	4	36	3	34	1	36	3	41	3	44	3	38	5	40	3	40	4	44	6	45	5	45	4	43	3	48	4	41
Feb. 28-Mar. 5	1	44	4	40	6	40	5	41	5	46	5	49	5	43	0	40	1	41	4	48	2	47	4	49	2	45	6	54	4	45
Mar. 6-12	4	48	4	44	3	43	3	44	3	49	2	51	3	46	3	43	3	44	3	51	3	50	3	52	3	48	2	56	3	48
13-19	5	53	3	47	3	46	2	46	3	52	1	52	3	49	6	49	5	49	3	54	6	56	6	58	5	53	1	57	4	52
20-26	3	56	4	51	3	49	3	49	3	55	3	55	3	52	3	52	2	51	2	56	4	60	2	60	3	56	3	60	3	55
Mar. 27-April 2	6	62	5	56	5	54	5	54	6	61	5	60	5	57	5	57	5	56	6	62	7	67	7	67	6	62	7	67	5	60
April 3-9	7	69	6	62	5	59	4	58	5	66	4	64	5	62	7	64	7	63	5	67	7	74	6	73	6	68	6	73	5	65
10-16	5	74	4	66	4	63	3	61	4	70	4	68	4	66	4	68	4	67	4	71	5	79	4	77	4	72	3	76	4	69
17-23	4	78	3	69	2	65	1	62	2	72	2	70	2	68	3	71	2	69	2	73	5	84	4	81	3	75	3	79	3	72
24-30	7	85	5	74	2	67	2	64	2	74	2	72	2	70	6	77	5	74	2	75	6	90	4	85	5	80	2	81	3	75
May 1-7	7	92	6	80	5	72	5	69	4	78	5	77	5	75	6	83	5	79	5	80	6	96	6	91	5	85	7	88	5	80
8-14	5	97	5	85	3	75	2	71	3	81	4	81	3	78	4	87	3	82	4	84	3	99	4	95	4	89	6	94	3	83
15-21	4	101	2	87	1	76	2	73	2	83	2	83	2	80	3	90	2	84	2	86	4	103	3	98	3	92	3	97	3	86
22-28	4	105	4	91	5	81	4	77	5	88	4	87	5	85	5	95	5	89	5	91	4	107	3	101	4	96	5	102	4	90
May 29-June 4	1	106	2	93	2	83	3	80	3	91	3	90	3	88	2	97	3	92	3	94	2	109	1	102	2	98	3	105	3	93
June 5-11	0	106	0	93	1	84	2	82	1	92	2	92	1	89	1	98	1	93	2	96	2	111	2	104	2	100	4	109	1	94
12-18	6	112	5	98	3	87	3	85	3	95	3	95	3	92	5	103	5	98	4	100	6	117	5	109	5	105	5	114	4	98
19-25	6	118	5	103	3	90	2	87	2	97	2	97	3	95	4	107	3	101	1	101	4	121	3	112	3	108	1	115	3	101
June 26-July 2	3	121	3	106	2	92	3	90	2	99	3	100	2	97	3	110	3	104	3	104	4	125	4	116	3	111	3	118	3	104
July 3-9	6	127	3	109	2	94	1	91	1	100	1	101	2	99	4	114	3	107	2	106	4	129	2	118	3	114	2	120	2	106
10-16	4	131	3	112	1	95	1	92	1	101	1	102	1	100	3	117	3	110	3	109	4	133	4	122	3	117	2	122	2	108
17-23	2	133	3	115	2	97	1	93	2	103	2	104	2	101	3	120	3	113	3	112	4	137	5	127	4	121	4	126	3	111
24-30	1	134	1	116	5	102	5	98	5	108	5	109	4	106	2	122	3	116	6	118	5	142	5	132	4	125	6	132	4	115
July 31-Aug. 6	6	140	5	121	2	104	1	99	3	111	2	111	3	109	5	127	4	120	4	122	6	148	6	138	5	130	3	135	4	119
Aug. 7-13	6	146	6	127	4	108	2	101	3	114	2	113	3	112	4	131	4	124	3	125	7	155	3	141	4	134	3	138	4	123
14-20	5	151	4	131	4	112	3	104	4	118	3	116	4	116	4	135	6	130	4	129	6	161	4	145	5	139	4	142	4	127
21-27	6	157	6	137	4	116	4	108	4	122	4	120	4	120	5	140	5	135	4	133	5	166	4	149	5	144	5	147	5	132
Aug. 28-Sept. 3	6	163	4	141	3	119	5	113	3	125	4	124	4	124	3	143	3	138	4	137	5	171	3	152	4	148	5	152	4	136
Sept. 4-10	6	169	5	146	2	121	2	115	2	127	3	127	3	127	5	148	4	142	3	140	6	177	5	157	4	152	4	156	4	140
11-17	3	172	3	149	1	122	2	117	2	129	3	130	2	129	2	150	2	144	5	145	4	181	5	162	4	156	5	161	3	143
18-24	1	173	1	150	2	124	3	120	2	131	2	132	2	131	0	150	1	145	0	145	0	181	0	162	0	156	2	163	1	144
Sept. 25-Oct. 1	6	179	4	154	3	127	3	123	2	133	3	135	3	134	3	153	3	148	3	148	4	185	4	166	3	159	4	167	3	147
Oct. 2-8	7	186	4	158	3	130	4	127	3	136	5	140	4	138	5	158	4	152	4	152	6	191	4	170	5	164	6	173	4	151
9-15	5	191	2	160	1	131	0	127	2	138	2	142	1	139	4	162	2	154	3	155	4	195	4	174	3	167	4	177	2	153
16-22	5	196	3	163	3	134	4	131	3	141	4	146	3	142	5	167	4	158	5	160	6	201	6	180	5	172	7	184	4	157
23-29	6	202	3	166	1	135	2	133	2	143	1	147	2	144	2	169	1	159	1	161	4	205	2	182	2	174	4	188	2	159
Oct. 30-Nov. 5	6	208	3	169	2	137	2	135	2	145	2	149	2	146	3	172	2	161	1	162	4	209	1	183	2	176	1	189	2	161
Nov. 6-12	6	214	5	174	5	142	5	140	5	150	5	154	5	151	6	178	6	167	6	168	7	216	6	189	6	182	6	195	6	167
13-19	5	219	1	175	1	143	1	141	1	151	1	155	1	152	3	181	2	169	2	170	3	219	2	191	2	184	2	197	2	169
20-26	6	225	4	179	4	147	4	145	3	154	2	157	4	156	4	185	3	172	4	174	7	226	4	195	5	189	7	204	4	173
Nov. 27-Dec. 3	7	232	5	184	3	150	2	147	3	157	3	160	3	159	5	190	5	177	4	178	6	232	5	200	5	194	5	209	4	177
Dec. 4-10	6	238	5	189	5	155	6	153	6	163	7	167	6	165	5	195	6	183	7	185	6	238	6	206	6	200	7	216	6	183
11-17	6	244	6	195	6	161	5	158	6	169	6	173	6	171	7	202	6	189	6	191	7	245	6	212	6	206	6	222	6	189
18-24	4	248	2	197	0	161	1	159	1	170	1	174	1	172	1	203	0	189	1	192	1	246	1	213	1	207	1	223	1	190
Dec. 25-31	5	253	4	201	3	164	5	164	3	173	3	177	3	175	3	206	3	192	3	195	4	250	3	216	3	210	5	228	3	193

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TABLE II.—SHOWING THE WEEKLY AND PROGRESSIVE AMOUNTS OF **RAINFALL** IN EACH DISTRICT DURING THE YEAR 1904.

1904. — Limits of Weeks.	0. Scotland, N.		Principal Wheat-producing Districts.												Principal Grazing Districts.												Channel Islands.		Means for Districts 1–10 combined.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing Districts.						
	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.
	RAINFALL IN INCHES—1904.																													
1904.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.	Ins.
Jan. 3–9	1·70	1·70	0·71	0·71	0·25	0·25	0·40	0·40	0·56	0·56	0·65	0·65	0·51	0·51	1·79	1·79	1·01	1·01	1·24	1·24	1·24	1·24	1·66	1·66	1·39	1·39	1·60	1·60	0·95	0·95
10–16	1·84	3·54	0·73	1·44	0·53	0·78	0·47	0·87	0·78	1·34	1·03	1·68	0·71	1·22	1·37	3·16	1·15	2·16	1·43	2·67	1·53	2·77	1·14	2·80	1·32	2·71	1·55	3·15	1·02	1·97
17–23	0·76	4·30	0·08	1·52	0·09	0·87	0·36	1·23	0·10	1·44	0·18	1·86	0·16	1·38	0·58	3·74	0·24	2·40	0·14	2·81	0·26	3·03	0·16	2·96	0·27	2·98	0·24	3·39	0·22	2·19
24–30	1·18	5·48	0·87	2·39	0·47	1·34	0·53	1·76	0·78	2·22	1·77	3·63	0·89	2·27	1·18	4·92	1·04	3·44	1·53	4·34	0·96	3·99	1·28	4·24	1·20	4·18	1·34	4·73	1·04	3·23
Jan. 31–Feb. 6	0·42	5·90	1·10	3·49	1·17	2·51	0·77	2·53	1·39	3·61	1·20	4·83	1·13	3·40	0·53	5·45	1·03	4·47	1·35	5·69	0·54	4·53	1·04	5·28	0·90	5·08	1·81	6·54	1·02	4·25
Feb. 7–13	1·37	7·27	0·81	4·30	0·65	3·16	1·18	3·71	1·52	5·13	1·72	6·55	1·18	4·58	1·27	6·72	1·11	5·58	2·54	8·23	1·06	5·59	1·79	7·07	1·55	6·63	2·09	8·63	1·36	5·61
14–20	1·35	8·62	0·21	4·51	0·50	3·66	0·59	4·30	0·60	5·73	0·66	7·21	0·51	5·09	1·42	8·14	1·00	6·58	1·33	9·56	1·08	6·67	1·21	8·28	1·21	7·84	1·55	10·18	0·86	6·47
21–27	0·84	9·46	0·75	5·26	0·22	3·88	0·02	4·32	0·30	6·03	0·12	7·33	0·28	5·37	1·30	9·44	0·60	7·18	0·50	10·06	0·95	7·62	0·94	9·22	0·86	8·70	0·34	10·52	0·57	7·04
Feb. 28–Mar. 5	0·02	9·48	0·20	5·46	0·41	4·29	0·46	4·78	0·30	6·33	0·57	7·90	0·39	5·76	0·01	9·45	0·02	7·20	0·51	10·57	0·20	7·82	0·82	10·04	0·31	9·01	0·75	11·27	0·35	7·39
Mar. 6–12	0·51	9·99	0·42	5·88	0·38	4·67	0·18	4·96	0·41	6·74	0·24	8·14	0·32	6·08	0·52	9·97	0·36	7·56	0·57	11·14	0·14	7·96	0·34	10·38	0·39	9·40	0·26	11·53	0·36	7·75
13–19	0·59	10·58	0·19	6·07	0·19	4·86	0·08	5·04	0·23	6·97	0·08	8·22	0·15	6·23	0·97	10·94	0·66	8·22	0·14	11·28	0·67	8·63	0·75	11·13	0·64	10·04	0·01	11·54	0·39	8·14
20–26	0·67	11·25	0·44	6·51	0·10	4·96	0·11	5·15	0·14	7·11	0·10	8·32	0·18	6·41	0·87	11·81	0·37	8·59	0·08	11·36	0·45	9·08	0·60	11·73	0·47	10·51	0·06	11·60	0·33	8·47
Mar. 27–April 2	1·75	13·00	0·96	7·47	0·40	5·36	0·77	5·92	0·58	7·69	0·63	8·95	0·67	7·08	2·27	14·08	1·04	9·63	0·96	12·32	1·47	10·55	1·36	13·09	1·42	11·93	1·17	12·77	1·04	9·51
April 3–9	2·88	15·88	0·94	8·41	0·26	5·62	0·17	6·09	0·31	8·00	0·27	9·22	0·39	7·47	1·71	15·79	0·77	10·40	0·62	12·94	1·02	11·57	0·67	13·76	0·96	12·89	0·31	13·08	0·68	10·19
10–16	0·67	16·55	0·53	8·94	0·47	6·09	0·30	6·39	0·62	8·62	0·52	9·74	0·49	7·96	0·53	16·32	0·39	10·79	0·53	13·47	0·40	11·97	0·45	14·21	0·46	13·35	0·81	13·89	0·48	10·67
17–23	0·45	17·00	0·14	9·08	0·14	6·23	0·21	6·63	0·17	8·79	0·22	9·96	0·18	8·14	0·52	16·84	0·22	11·01	0·22	13·69	0·56	12·53	0·38	14·59	0·38	13·73	0·30	14·19	0·28	10·95
24–30	2·40	19·40	0·32	9·40	0·07	6·30	0·06	6·69	0·07	8·86	0·13	10·09	0·13	8·27	1·27	18·11	0·50	11·51	0·39	14·08	0·47	13·00	0·28	14·87	0·58	14·31	0·14	14·33	0·35	11·30
May 1–7	1·20	20·60	1·22	10·62	0·96	7·26	0·76	7·45	0·47	9·33	0·66	10·75	0·81	9·08	1·43	19·54	0·48	11·99	1·09	15·17	1·03	14·03	1·47	16·34	1·10	15·41	0·69	15·02	0·96	12·26
8–14	0·87	21·47	0·65	11·27	0·18	7·44	0·20	7·65	0·20	9·53	0·25	11·00	0·30	9·38	0·56	20·10	0·29	12·28	0·37	15·54	0·24	14·27	0·41	16·75	0·37	15·78	0·46	15·48	0·33	12·59
15–21	0·87	22·34	0·05	11·32	0·04	7·48	0·12	7·77	0·29	9·82	0·59	11·59	0·22	9·60	0·48	20·58	0·13	12·41	0·20	15·74	0·22	14·49	0·14	16·89	0·23	16·01	0·10	15·58	0·23	12·82
22–28	0·54	22·88	0·60	11·92	0·87	8·35	0·41	8·18	0·94	10·76	0·81	12·40	0·72	10·32	0·81	21·39	0·88	13·29	1·19	16·93	0·43	14·92	0·42	17·31	0·75	16·76	1·08	16·66	0·73	13·55
May 29–June 4	0·18	23·06	0·44	12·36	0·37	8·72	0·45	8·63	0·46	11·22	0·55	12·95	0·45	10·77	0·63	22·02	0·87	14·16	0·46	17·39	0·58	15·50	0·39	17·70	0·59	17·35	0·42	17·08	0·52	14·07
June 5–11	0·00	23·06	0·00	12·36	0·05	8·77	0·15	8·78	0·12	11·34	0·15	13·10	0·10	10·87	0·06	22·08	0·27	14·43	0·09	17·48	0·30	15·80	0·13	17·83	0·17	17·52	0·22	17·30	0·14	14·21
12–18	1·59	24·65	0·64	13·00	0·21	8·98	0·27	9·05	0·30	11·64	0·32	13·42	0·35	11·22	1·17	23·25	0·59	15·02	0·83	18·31	1·12	16·92	1·29	19·12	1·00	18·52	0·57	17·87	0·67	14·88
19–25	1·06	25·71	0·65	13·65	0·66	9·64	0·15	9·20	0·23	11·87	0·23	13·65	0·38	11·60	0·76	24·01	0·22	15·24	0·25	18·56	0·23	17·15	0·36	19·48	0·36	18·88	0·10	17·97	0·37	15·25
June 26–July 2	0·39	26·10	0·31	13·96	0·19	9·83	0·25	9·45	0·21	12·08	0·19	13·84	0·23	11·83	0·30	24·31	0·22	15·46	0·29	18·85	0·49	17·64	0·61	20·09	0·38	19·26	0·17	18·14	0·30	15·55
July 3–9	0·87	26·97	0·30	14·26	0·15	9·98	0·31	9·76	0·09	12·17	0·11	13·95	0·19	12·02	0·96	25·27	0·24	15·70	0·07	18·92	0·46	18·10	0·23	20·32	0·39	19·65	0·05	18·19	0·29	15·84
10–16	0·53	27·50	0·50	14·76	0·15	10·13	0·07	9·83	0·11	12·28	0·08	14·03	0·18	12·20	1·04	26·31	0·49	16·19	0·33	19·25	0·88	18·98	1·24	21·56	0·80	20·45	0·14	18·33	0·49	16·33
17–23	0·13	27·63	0·41	15·17	0·28	10·41	0·03	9·86	0·39	12·67	0·12	14·15	0·25	12·45	0·56	26·87	0·44	16·63	1·05	20·30	0·89	19·87	1·03	22·59	0·79	21·24	0·52	18·85	0·52	16·85
24–30	0·06	27·69	0·06	15·23	1·21	11·62	1·86	11·72	2·22	14·89	1·20	15·35	1·31	13·76	0·34	27·21	0·49	17·12	2·39	22·69	0·92	20·79	0·82	23·41	0·99	22·23	1·53	20·38	1·15	18·00
July 31–Aug. 6	1·31	29·00	1·11	16·34	0·15	11·77	0·01	11·73	0·31	15·20	0·29	15·64	0·37	14·13	1·54	28·75	0·50	17·62	0·37	23·06	1·95	22·74	1·40	24·81	1·15	23·38	0·51	20·89	0·76	18·76
Aug. 7–13	1·21	30·21	1·10	17·44	0·48	12·25	0·20	11·93	0·21	15·41	0·39	16·03	0·48	14·61	1·26	30·01	0·71	18·33	0·55	23·61	1·77	24·51	0·70	25·51	1·00	24·38	0·63	21·52	0·74	19·50
14–20	1·08	31·29	0·97	18·41	1·02	13·27	0·45	12·38	0·99	16·40	0·48	16·51	0·78	15·39	1·16	31·17	1·17	19·50	0·94	24·55	0·92	25·43	0·68	26·19	0·98	25·36	0·48	22·00	0·88	20·38
21–27	0·83	32·12	0·32	18·73	0·86	14·13	0·68	13·06	1·06	17·46	0·64	17·15	0·71	16·10	0·70	31·87	1·39	20·89	0·84	25·39	0·37	25·80	0·77	26·96	0·81	26·17	0·46	22·46	0·76	21·14
Aug. 28–Sept. 3	1·29	33·41	0·94	19·67	0·65	14·78	0·81	13·87	0·55	18·01	0·92	18·07	0·77	16·87	1·19	33·06	0·64	21·53	0·61	26·00	1·08	26·88	0·86	27·82	0·88	27·05	0·65	23·11	0·82	21·96
Sept. 4–10	2·05	35·46	0·63	20·30	0·23	15·01	0·32	14·19	0·19	18·20	0·37	18·44	0·35	17·22	1·84	34·90	0·61	22·14	0·63	26·63	0·94	27·82	1·59	29·41	1·12	28·17	0·82	23·93	0·74	22·70
11–17	0·28	35·74	0·25	20·55	0·11	15·12	0·20	14·39	0·58	18·78	0·67	19·11	0·36	17·58	0·54	35·44	0·37	22·51	0·99	27·62	0·78	28·60	1·25	30·66	0·79	28·96	0·99	24·92	0·58	23·28
18–24	0·01	35·75	0·06	20·61	0·35	15·47	0·24	14·63	0·14	18·92	0·12	19·23	0·18	17·76	0·00	35·44	0·04	22·55	0·01	27·63	0·00	28·60	0·02	30·68	0·01	28·97	0·03	24·95	0·09	23·37
Sept. 25–Oct. 1	1·84	37·59	0·60	21·21	0·45	15·92	0·42	15·05	0·53	19·45	0·34	19·57	0·47	18·23	1·28	36·72	0·68	23·23	0·74	28·37	0·74	29·34	0·52	31·20	0·79	29·76	0·64	25·59	0·63	24·00
Oct. 2–8	1·89	39·48	0·65	21·86	0·27	16·19	0·37	15·42	0·20	19·65	1·35	20·92	0·57	18·80	1·24	37·96	0·65	23·88	1·01	29·38	0·52	29·86	0·33	31·53	0·75	30·51	2·48	28·07	0·66	24·66
9–15	0·56	40·04	0·12	21·98	0·07	16·26	0·00	15·42	0·06	19·71	0·08	21·00	0·07	18·87	0·35	38·31	0·18	24·06	0·36	29·74	0·26	30·12	0·52	32·05	0·34	30·85	0·44	28·51	0·20	24·86
16–22	0·75	40·79	0·13	22·11	0·12	16·38	0·45	15·87	0·24	19·95	0·53	21·53	0·29	19·16	1·20	39·51	1·02	25·08	0·95	30·69	0·94	31·06	1·15	33·20	1·05	31·90	0·48	28·99	0·67	25·53
23–29	0·67	41·46	0·08	22·19	0·05	16·43	0·22	16·09	0·07	20·02	0·20	21·73	0·12	19·28	0·33	39·84	0·12	25·20	0·05	30·74	0·61	31·67	0·45	33·65	0·31	32·21	0·11	29·10	0·22	25·75
Oct. 30–Nov. 5	0·93	42·39	0·09	22·28	0·07	16·50	0·07	16·16	0·06	20·08	0·10	21·83	0·08	19·36	0·50	40·34	0·05	25·25	0·06	30·80	0·50	31·87	0·09	33·74	0·18	32·39	0·01	29·11	0·13	25·88
Nov. 6–12	1·30	43·69	0·52	22·80	0·72	17·22	0·88	17·04	1·04	21·12	1·20	23·03	0·87	20·23	1·79	42·13	1·83	27·08	1·97	32·77	1·68	33·55	1·37	35·11	1·73	34·12	0·43	29·54	1·30	27·18
13–19	0·84	44·53	0·05	22·85	0·01	17·23	0·03	17·07	0·04	21·16	0·04	23·07	0·04	20·27	0·66	42·79	0·20	27·28	0·08	32·85	0·25	33·80	0·11	35·22	0·26	34·38	0·08	29·62	0·15	27·33
20–26	0·83	45·36	0·57	23·42	1·19	18·42	0·54	17·61	0·59	21·75	0·17	23·24	0·61	20·88	0·54	43·33	0·58	27·86	0·74	33·59	1·51	35·31	0·80	36·02	0·83	35·21	2·03	31·65	0·72	28·05
Nov. 27–Dec. 3	1·34	46·70	0·24	23·66	0·10	18·52	0·06	17·67	0·10	21·85	0·15	23·39	0·13	21·01	0·82	44·15	0·52	28·38	0·35	33·94	0·44	35·75	0·45	36·47	0·52	35·73	0·44	32·09	0·32	28·37
Dec. 4–10	1·67	48·37	0·92	24·58	0·75	19·27	1·08	18·75	0·92	22·77	1·92	25·31	1·12	22·13	1·13	45·28	1·17	29·55	2·03	35·97	0·97	36·72	1·08	37·55	1·28	37·01	2·51	34·60	1·20	29·57
11–17	1·94	50·31	0·88	25·46	0·79	20·06	0·66	19·41	0·72	23·49	0·83	26·14	0·77	22·90	2·21	47·49	1·50	31·05	1·14	37·11	1·27	37·99	1·03	38·58	1·43	38·44	1·14	35·74	1·10	30·67
18–24	0·22	50·53	0·04	25·50	0·02	20·08	0·05	19·46	0·02	23·51	0·05	26·19	0·04	22·94	0·02	47·51	0·00	31·05	0·05	37·16	0·03	38·02	0·06	38·64	0·03	38·47	0·02	35·76	0·04	30·71
Dec. 25–31	1·48	52·01	0·37	25·87	0·11	20·19	0·21	19·67	0·12	23·63	0·12	26·31	0·19	23·13	0·60	48·11	0·24	31·29	0·21	37·37	0·37	38·39	0·20	38·84	0·32	38·79	0·14	35·90	0·26	30·97

TABLE III.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF **ACCUMULATED HEAT** ABOVE 42° F. IN EACH DISTRICT DURING THE YEAR 1904.

1904. — LIMITS OF WEEKS.	0. SCOTLAND, N.		Principal Wheat-producing Districts.												Principal Grazing Districts.												CHANNEL ISLANDS.		MEANS FOR DISTRICTS 1-10 COMBINED.	
			1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR GRAZING DISTRICTS.						
	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.
DAY-DEGREES ABOVE 42° FAHRENHEIT—1904.																														
1904.																														
Jan. 3-9	4	4	2	2	2	2	2	2	5	5	7	7	3	3	6	6	6	6	23	23	7	7	24	24	13	13	22	22	8	8
10-16	0	4	0	2	6	8	10	12	11	16	12	19	8	11	4	10	7	13	24	47	4	11	21	45	12	25	29	51	10	18
17-23	20	24	14	16	8	16	0	12	8	24	0	19	6	17	20	30	9	22	11	58	22	33	22	67	17	42	20	71	12	30
24-30	9	33	6	22	9	25	4	16	8	32	7	26	7	24	10	40	11	33	22	80	9	42	23	90	15	57	24	95	11	41
Jan. 31-Feb. 6	0	33	0	22	0	25	6	22	0	32	10	36	3	27	0	40	0	33	8	88	0	42	3	93	2	59	20	115	3	44
Feb. 7-13	0	33	0	22	5	30	11	33	6	38	21	57	9	36	4	44	4	37	21	109	1	43	11	104	8	67	28	143	8	52
14-20	0	33	0	22	3	33	5	38	4	42	6	63	4	40	3	47	3	40	10	119	3	46	11	115	6	73	20	163	5	57
21-27	2	35	0	22	0	33	0	38	0	42	2	65	0	40	5	52	1	41	8	127	20	66	25	140	12	85	19	182	6	63
Feb. 28-Mar. 5	0	35	0	22	0	33	0	38	0	42	0	65	0	40	0	52	0	41	0	127	0	66	0	140	0	85	0	182	0	63
Mar. 6-12	1	36	1	23	3	36	13	51	12	54	16	81	9	49	4	56	6	47	17	144	6	72	11	151	9	94	28	210	9	72
13-19	11	47	12	35	13	49	15	66	16	70	17	98	15	64	12	68	11	58	27	171	29	101	33	184	22	116	31	241	19	91
20-26	14	61	15	50	23	72	25	91	26	96	23	121	22	86	15	83	14	72	25	196	27	128	32	216	23	139	31	272	22	113
Mar. 27-April 2	11	72	15	65	18	90	19	110	18	114	26	147	19	105	13	96	17	89	25	221	14	142	29	245	19	158	33	305	19	132
April 3-9	14	86	29	94	38	128	43	153	41	155	40	187	38	143	30	126	30	119	39	260	28	170	37	282	33	191	49	354	36	168
10-16	31	117	36	130	42	170	49	202	46	201	49	236	44	187	34	160	39	158	40	300	35	205	37	319	37	228	54	408	40	208
17-23	36	153	47	177	42	212	47	249	52	253	55	291	49	236	48	208	43	201	50	350	36	241	44	363	44	272	56	464	47	255
24-30	25	178	41	218	57	269	56	305	49	302	47	338	50	286	33	241	45	246	48	398	36	277	53	416	43	315	57	521	46	301
May 1-7	26	204	33	251	45	314	50	355	46	348	48	386	44	330	35	276	39	285	40	438	34	311	42	458	38	353	63	584	41	342
8-14	28	232	33	284	46	360	52	407	49	397	55	441	47	377	37	313	46	331	55	493	47	358	53	511	48	401	67	651	48	390
15-21	42	274	53	337	63	423	73	480	61	458	72	513	65	442	50	363	56	387	64	557	48	406	60	571	58	457	79	730	60	450
22-28	50	324	54	391	78	501	93	573	88	546	97	610	82	524	61	424	74	461	83	640	60	466	74	645	70	527	94	824	76	526
May 29-June 4	90	414	82	473	79	580	90	663	87	633	98	708	87	611	100	524	88	549	100	740	95	561	105	750	98	625	101	925	93	619
June 5-11	76	490	67	540	69	649	83	746	82	715	91	799	78	689	90	614	84	633	95	835	93	654	104	854	93	718	101	1026	85	704
12-18	75	565	85	625	105	754	116	862	104	819	107	906	104	793	88	702	102	735	99	934	89	743	100	954	95	813	111	1137	99	803
19-25	66	631	83	708	99	853	106	968	92	911	104	1010	97	890	83	785	89	824	92	1026	83	826	92	1046	88	901	105	1242	93	896
June 26-July 2	79	710	84	792	95	948	103	1071	102	1013	112	1122	99	989	93	878	106	930	105	1131	90	916	102	1148	99	1000	121	1363	99	995
July 3-9	77	787	92	884	129	1077	132	1203	127	1140	131	1253	122	1111	90	968	106	1036	123	1254	90	1006	100	1248	102	1102	130	1493	112	1107
10-16	104	891	118	1002	152	1229	161	1364	164	1304	163	1416	152	1263	125	1093	145	1181	160	1414	119	1125	134	1382	136	1238	162	1655	144	1251
17-23	87	978	98	1100	121	1350	148	1512	145	1449	157	1573	134	1397	123	1216	138	1319	153	1567	123	1248	135	1517	134	1372	155	1810	134	1385
24-30	106	1084	104	1204	127	1477	156	1668	141	1590	148	1721	135	1532	120	1336	135	1454	135	1702	123	1371	130	1647	129	1501	145	1955	132	1517
July 31-Aug. 6	115	1199	130	1334	158	1635	174	1842	156	1746	165	1886	157	1689	131	1467	146	1600	146	1848	120	1491	131	1778	135	1636	155	2110	146	1663
Aug. 7-13	81	1280	93	1427	109	1744	125	1967	104	1850	127	2013	111	1800	96	1563	106	1706	119	1967	95	1586	109	1887	105	1741	134	2244	108	1771
14-20	74	1354	83	1510	99	1843	120	2087	104	1954	120	2133	105	1905	85	1648	100	1806	113	2080	88	1674	104	1991	98	1839	130	2374	102	1873
21-27	63	1417	69	1579	83	1926	103	2190	82	2036	106	2239	89	1994	71	1719	81	1887	98	2178	82	1756	95	2086	85	1924	115	2489	87	1960
Aug. 28-Sept. 3	101	1518	108	1687	131	2057	129	2319	125	2161	130	2369	125	2119	116	1835	127	2014	127	2305	111	1867	123	2209	121	2045	136	2625	123	2083
Sept. 4-10	76	1594	81	1768	102	2159	108	2427	96	2257	104	2473	98	2217	90	1925	99	2113	104	2409	81	1948	93	2304	94	2139	116	2741	96	2179
11-17	75	1669	69	1837	89	2248	101	2528	86	2343	105	2578	90	2307	82	2007	92	2205	107	2516	87	2035	99	2403	93	2232	122	2863	91	2270
18-24	76	1745	71	1908	83	2331	86	2614	69	2412	83	2661	78	2385	84	2091	82	2287	88	2604	83	2118	91	2494	86	2318	106	2969	82	2352
Sept. 25-Oct. 1	61	1806	54	1962	72	2403	70	2684	62	2474	78	2739	67	2452	62	2153	73	2360	78	2682	66	2184	71	2565	70	2388	101	3070	69	2421
Oct. 2-8	35	1841	43	2005	50	2453	54	2738	47	2521	62	2801	51	2503	48	2201	51	2411	69	2751	50	2234	57	2622	55	2443	97	3167	53	2474
9-15	40	1881	46	2051	47	2500	48	2786	49	2570	50	2851	48	2551	44	2245	46	2457	61	2812	43	2277	68	2690	52	2495	92	3259	50	2524
16-22	52	1933	56	2107	78	2578	85	2871	82	2652	90	2941	78	2629	72	2317	85	2542	85	2897	73	2350	90	2780	81	2576	105	3364	79	2603
23-29	37	1970	42	2149	46	2624	53	2924	43	2695	55	2996	48	2677	46	2363	41	2583	49	2946	41	2391	55	2835	47	2623	83	3447	48	2651
Oct. 30-Nov. 5	30	2000	37	2186	53	2677	52	2976	40	2735	43	3039	45	2722	45	2408	50	2633	49	2995	43	2434	57	2892	49	2672	67	3514	47	2698
Nov. 6-12	7	2007	10	2196	36	2713	43	3019	41	2776	55	3094	37	2759	28	2436	36	2669	56	3051	35	2469	53	2945	42	2714	76	3590	39	2737
13-19	34	2041	37	2233	38	2751	34	3053	20	2796	35	3129	33	2792	40	2476	34	2703	39	3090	46	2515	48	2993	41	2755	62	3652	37	2774
20-26	0	2041	0	2233	0	2751	0	3053	0	2796	0	3129	0	2792	0	2476	0	2703	0	3090	0	2515	2	2995	0	2755	19	3671	0	2774
Nov. 27-Dec. 3	8	2049	7	2240	10	2761	6	3059	10	2806	20	3149	11	2803	11	2487	21	2724	15	3105	22	2537	29	3024	20	2775	31	3702	15	2789
Dec. 4-10	0	2049	0	2240	9	2770	11	3070	5	2811	23	3172	10	2813	1	2488	7	2731	25	3130	4	2541	33	3057	14	2789	48	3750	12	2801
11-17	5	2054	5	2245	12	2782	14	3084	14	2825	28	3200	14	2827	10	2498	13	2744	32	3162	14	2555	34	3091	20	2809	46	3796	17	2818
18-24	15	2069	0	2245	0	2782	0	3084	0	2825	1	3201	0	2827	0	2498	0	2744	3	3165	7	2562	25	3116	7	2816	31	3827	4	2822
Dec. 25-31	7	2076	6	2251	2	2784	6	3090	5	2830	18	3219	7	2834	7	2505	7	2751	22	3187	23	2585	29	3145	18	2834	32	3859	12	2834

TABLE IV.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF **ACCUMULATED HEAT** BELOW 42° F. IN EACH DISTRICT DURING THE YEAR 1904.

1904. — Limits of Weeks.	0. Scotland, N.		Principal Wheat-producing Districts.												Principal Grazing Districts.												Channel Islands.		Means for Districts 1-10 combined.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing Districts.					
	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.
DAY-DEGREES BELOW 42° FAHRENHEIT—1904.																														
1904.																														
Jan. 3-9	30	30	34	34	33	33	30	30	36	36	25	25	32	32	23	23	29	29	12	12	25	25	12	12	20	20	0	0	26	26
10-16	36	66	40	74	28	61	25	55	30	66	22	47	29	61	25	48	21	50	9	21	26	51	13	25	19	39	3	3	24	50
17-23	13	79	26	100	31	92	46	101	37	103	38	85	36	97	10	58	21	71	24	45	7	58	7	32	14	53	6	9	25	75
24-30	20	99	31	131	32	124	27	128	30	133	22	107	28	125	11	69	24	95	9	54	21	79	9	41	15	68	3	12	22	97
Jan. 31-Feb. 6	40	139	45	176	27	151	22	150	32	165	19	126	29	154	36	105	32	127	23	77	39	118	34	75	33	101	3	15	31	128
Feb. 7-13	41	180	52	228	30	181	26	176	30	195	13	139	30	184	29	134	28	155	12	89	33	151	29	104	26	127	2	17	28	156
14-20	43	223	49	277	37	218	34	210	39	234	33	172	38	222	38	172	33	188	27	116	36	187	31	135	33	160	11	28	36	192
21-27	25	248	36	313	31	249	22	232	27	261	22	194	28	250	20	192	22	210	16	132	9	196	3	138	14	174	2	30	21	213
Feb. 28-Mar. 5	43	291	63	376	55	304	57	289	67	328	61	255	61	311	50	242	60	270	53	185	28	234	31	169	46	220	27	57	54	267
Mar. 6-12	34	325	41	417	31	335	28	317	37	365	27	282	33	344	38	280	35	305	27	212	35	269	28	197	33	253	6	63	33	300
13-19	30	355	34	451	31	366	37	354	37	402	33	315	34	378	22	302	26	331	17	229	15	284	13	210	19	272	11	74	26	326
20-26	27	382	29	480	13	379	12	366	14	416	11	326	16	394	22	324	20	351	10	239	9	293	6	216	13	285	0	74	14	340
Mar. 27-April 2	29	411	36	516	32	411	29	395	30	446	15	341	28	422	27	351	25	376	12	251	24	317	10	226	20	305	6	80	24	364
April 3-9	22	433	17	533	5	416	0	395	4	450	0	341	5	427	8	359	4	380	0	251	9	326	0	226	4	309	0	80	5	369
10-16	9	442	13	546	7	423	1	396	7	457	0	341	6	433	2	361	4	384	1	252	3	329	2	228	3	312	0	80	4	373
17-23	7	449	11	557	6	429	8	404	8	465	4	345	7	440	6	367	2	386	0	252	5	334	4	232	3	315	0	80	5	378
24-30	10	459	6	563	0	429	0	404	0	465	0	345	1	441	0	367	0	386	0	252	0	334	0	232	0	315	0	80	1	379
May 1-7	9	468	10	573	2	431	0	404	6	471	0	345	4	445	6	373	0	386	0	252	3	337	0	232	2	317	0	80	3	382
8-14	8	476	8	581	0	431	0	404	1	472	0	345	2	447	1	374	0	386	0	252	0	337	0	232	0	317	0	80	1	383
15-21	1	477	4	585	0	431	0	404	2	474	0	345	1	448	1	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
22-28	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
May 29-June 4	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
June 5-11	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
12-18	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
19-25	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
June 26-July 2	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
July 3-9	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
10-16	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
17-23	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
24-30	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
July 31-Aug. 6	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
Aug. 7-13	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
14-20	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
21-27	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
Aug. 28-Sept. 3	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
Sept. 4-10	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
11-17	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
18-24	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
Sept. 25-Oct. 1	0	477	0	585	0	431	0	404	0	474	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
Oct. 2-8	3	480	1	586	0	431	0	404	1	475	0	345	0	448	0	375	0	386	0	252	0	337	0	232	0	317	0	80	0	383
9-15	10	490	18	604	8	439	0	404	8	483	0	345	7	455	3	378	2	388	0	252	1	338	0	232	1	318	0	80	4	387
16-22	0	490	0	604	0	439	0	404	0	483	0	345	0	455	0	378	0	388	0	252	0	338	0	232	0	318	0	80	0	387
23-29	0	490	3	607	3	442	0	404	11	494	0	345	4	459	0	378	0	388	0	252	0	338	0	232	0	318	0	80	2	389
Oct. 30-Nov. 5	0	490	0	607	0	442	0	404	0	494	0	345	0	459	0	378	0	388	0	252	0	338	0	232	0	318	0	80	0	389
Nov. 6-12	34	524	32	639	9	451	0	404	4	498	0	345	9	468	11	389	0	388	0	252	2	340	0	232	3	321	0	80	6	395
13-19	0	524	5	644	13	464	18	422	33	531	14	359	17	485	0	389	5	393	9	261	0	340	0	232	3	324	0	80	10	405
20-26	71	595	72	716	53	517	60	482	71	602	50	409	61	546	67	456	50	443	44	305	39	379	38	270	47	371	8	88	54	459
Nov. 27-Dec. 3	24	619	27	743	26	543	27	509	43	645	23	432	29	575	22	478	16	459	32	337	11	390	18	288	20	391	1	89	25	484
Dec. 4-10	50	669	46	789	31	574	25	534	30	675	10	442	28	603	29	507	26	485	9	346	26	416	22	310	22	413	0	89	25	509
11-17	31	700	39	828	31	605	28	562	32	707	12	454	28	631	27	534	14	499	10	356	28	444	13	323	18	431	0	89	23	532
18-24	9	709	29	857	55	660	59	621	68	775	27	481	48	679	29	563	57	556	25	381	22	466	6	329	28	459	0	89	38	570
Dec. 25-31	24	733	32	889	32	692	26	647	30	805	10	491	26	705	25	588	26	582	6	387	8	474	0	329	13	472	0	89	19	589

TABLE V.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF HOURS OF BRIGHT SUNSHINE IN EACH DISTRICT REGISTERED DURING THE YEAR 1904.

1904. — Limits of Weeks.	0. Scotland, N.		Principal Wheat-producing Districts.												Principal Grazing Districts.												Channel Islands.		Means for Districts 1-10 combined.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing Districts.					
	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.
Numbers of Hours of Bright Sunshine—1904.																														
1904.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.
Jan. 3-9	5	5	5	5	4	4	5	5	3	3	4	4	4	4	5	5	6	6	7	7	4	4	9	9	6	6	10	10	5	5
10-16	3	8	10	15	9	13	11	16	11	14	12	16	11	15	7	12	6	12	11	18	7	11	15	24	9	15	12	22	10	15
17-23	2	10	5	20	14	27	15	31	11	25	11	27	11	26	5	17	8	20	15	33	2	13	3	27	7	22	13	35	9	24
24-30	6	16	9	29	9	36	11	42	7	32	9	36	9	35	9	26	12	32	7	40	10	23	9	36	9	31	11	46	9	33
Jan. 31-Feb. 6	5	21	3	32	4	40	11	53	6	38	15	51	8	43	5	31	9	41	13	53	11	34	14	50	10	41	18	64	9	42
Feb. 7-13	6	27	9	41	15	55	15	68	10	48	13	64	12	55	8	39	9	50	8	61	5	39	12	62	9	50	12	76	11	53
14-20	19	46	17	58	19	74	20	88	16	64	19	83	18	73	11	50	12	62	18	79	11	50	11	73	13	63	20	96	15	68
21-27	9	55	4	62	2	76	6	94	5	69	13	96	6	79	4	54	3	65	10	89	10	60	10	83	7	70	20	116	7	75
Feb. 28-Mar. 5	25	80	14	76	8	84	9	103	8	77	8	104	10	89	17	71	17	82	11	100	14	74	15	98	15	85	16	132	13	88
Mar. 6-12	18	98	25	101	21	105	28	131	22	99	30	134	25	114	26	97	23	105	32	132	32	106	29	127	28	113	37	169	26	114
13-19	16	114	17	118	19	124	34	165	22	121	28	162	24	138	9	106	11	116	20	152	21	127	16	143	15	128	30	199	20	134
20-26	33	147	36	148	18	142	15	180	13	134	22	184	20	158	30	136	29	145	30	182	25	152	29	172	29	157	41	240	24	158
Mar. 27-April 2	19	166	26	174	32	174	32	212	30	164	27	211	29	187	23	159	27	172	25	207	17	169	21	193	23	180	31	271	26	184
April 3-9	24	190	45	219	44	218	39	251	43	207	35	246	41	228	36	195	34	206	33	240	30	199	30	223	33	213	30	301	37	221
10-16	30	220	31	253	36	254	42	293	34	241	43	289	38	266	31	226	34	240	45	285	38	237	31	254	36	249	53	354	37	258
17-23	35	255	32	285	48	302	50	343	38	279	46	335	43	309	46	272	48	288	50	335	41	278	46	300	46	295	50	404	45	303
24-30	23	278	32	317	33	335	32	375	29	308	29	364	31	340	27	299	28	316	25	360	17	295	25	325	24	319	39	443	27	330
May 1-7	30	308	32	349	41	376	40	415	40	348	35	399	37	377	35	334	37	353	26	386	31	326	32	357	32	351	41	484	35	365
8-14	26	334	15	364	23	399	23	438	22	370	25	424	22	399	22	356	28	381	32	418	40	366	36	393	32	383	34	518	27	392
15-21	44	378	62	426	63	462	65	503	60	430	61	485	62	461	55	411	57	438	51	469	41	407	48	441	50	433	48	566	56	448
22-28	36	414	19	445	11	473	18	521	7	437	20	505	15	476	11	422	13	451	22	491	34	441	39	480	24	457	33	599	19	467
May 29-June 4	72	486	54	499	41	514	28	549	36	473	32	537	38	514	55	477	50	501	57	548	57	498	53	533	54	511	61	660	46	513
June 5-11	65	551	36	535	26	540	37	586	37	510	42	579	36	550	70	547	61	562	49	597	63	561	69	602	62	573	29	689	49	562
12-18	26	577	47	582	43	583	50	636	41	551	45	624	45	595	31	578	40	602	34	631	27	588	32	634	33	606	54	743	39	601
19-25	20	597	29	611	31	614	47	683	34	585	51	678	39	634	23	601	27	629	49	680	19	607	25	659	29	635	70	813	34	635
June 26-July 2	48	645	54	665	67	681	74	757	70	655	80	758	69	703	71	672	76	705	78	758	44	651	50	709	64	699	88	901	66	701
July 3-9	16	661	28	693	52	733	56	813	54	709	53	811	49	752	26	698	50	755	48	806	26	677	48	757	40	739	60	961	44	745
10-16	33	694	43	736	63	796	87	900	70	779	80	891	69	821	54	752	65	820	60	866	49	726	43	800	54	793	72	1033	61	805
17-23	47	741	34	770	51	847	73	973	49	828	74	965	56	877	50	802	47	867	57	923	39	765	39	839	46	839	68	1101	51	857
24-30	41	782	15	785	12	859	33	1006	14	842	33	998	21	898	19	821	21	888	22	945	28	793	31	870	24	863	37	1138	23	880
July 31-Aug. 6	27	809	34	819	59	918	67	1073	63	905	66	1064	58	956	38	859	54	942	62	1007	25	818	32	902	42	905	63	1201	50	930
Aug. 7-13	27	836	34	853	48	966	61	1134	51	959	64	1128	52	1008	46	905	53	995	63	1070	31	849	47	949	48	953	54	1255	50	980
14-20	34	870	37	890	39	1005	39	1173	37	996	45	1173	39	1047	42	947	42	1037	53	1123	38	887	44	993	44	997	66	1321	42	1022
21-27	28	898	31	921	29	1034	44	1217	30	1026	45	1218	36	1083	22	969	23	1060	31	1154	27	914	31	1024	27	1024	37	1358	31	1053
Aug. 28-Sept. 3	28	926	31	952	41	1075	41	1258	43	1069	35	1253	38	1121	33	1002	39	1099	41	1195	32	946	30	1054	35	1059	38	1396	37	1090
Sept. 4-10	26	952	29	981	41	1116	42	1300	42	1111	41	1294	39	1160	42	1044	44	1143	37	1232	27	973	30	1084	36	1095	39	1435	37	1127
11-17	28	980	25	1006	41	1157	48	1348	36	1147	42	1336	39	1199	35	1079	35	1178	37	1269	27	1000	19	1103	31	1126	50	1485	35	1162
18-24	46	1026	38	1044	42	1199	50	1398	43	1190	53	1389	45	1244	46	1125	46	1224	53	1322	56	1056	54	1157	51	1177	59	1544	48	1210
Sept. 25-Oct. 1	23	1049	28	1072	33	1232	38	1436	27	1217	34	1423	32	1276	30	1155	31	1255	33	1355	29	1085	26	1183	30	1207	43	1587	31	1241
Oct. 2-8	24	1073	33	1105	32	1264	26	1462	21	1238	19	1442	26	1302	31	1186	26	1281	21	1376	26	1111	29	1212	27	1234	23	1610	27	1268
9-15	17	1090	29	1134	32	1296	32	1494	27	1265	30	1472	30	1332	26	1212	34	1315	23	1399	20	1131	16	1228	24	1258	34	1644	27	1295
16-22	15	1105	23	1157	16	1312	19	1513	15	1280	10	1482	17	1349	13	1225	13	1328	9	1408	10	1141	8	1236	11	1269	14	1658	14	1309
23-29	10	1115	16	1173	24	1336	30	1543	22	1302	30	1512	24	1373	10	1235	25	1353	31	1439	16	1157	26	1262	21	1290	35	1693	22	1331
Oct. 30-Nov. 5	7	1122	12	1185	9	1345	7	1550	3	1305	8	1520	8	1381	11	1246	7	1360	6	1445	9	1166	7	1269	8	1298	13	1706	8	1339
Nov. 6-12	15	1137	20	1205	16	1361	18	1568	12	1317	18	1538	17	1398	13	1259	10	1370	13	1458	9	1175	8	1277	11	1309	12	1718	14	1353
13-19	7	1144	19	1224	19	1380	20	1588	16	1333	18	1556	18	1416	6	1265	18	1388	18	1476	3	1178	6	1283	10	1319	21	1739	14	1367
20-26	9	1153	17	1241	17	1397	16	1604	16	1349	22	1578	18	1434	20	1285	14	1402	19	1495	14	1192	19	1302	17	1336	24	1763	18	1385
Nov. 27-Dec. 3	6	1159	10	1251	9	1406	11	1615	5	1354	12	1590	9	1443	8	1293	5	1407	9	1504	12	1204	12	1314	9	1345	13	1779	9	1394
Dec. 4-10	6	1165	10	1261	12	1418	6	1621	9	1363	6	1596	9	1452	12	1305	11	1418	13	1517	20	1224	21	1335	15	1360	15	1794	12	1405
11-17	4	1169	7	1268	11	1432	12	1633	9	1372	6	1602	10	1462	8	1313	7	1425	8	1525	9	1233	7	1342	8	1368	8	1802	9	1415
18-24	3	1172	9	1277	10	1442	16	1649	6	1378	16	1618	11	1473	6	1319	13	1438	11	1536	5	1238	9	1351	9	1377	17	1819	10	1425
Dec. 25-31	3	1175	6	1283	7	1449	8	1657	7	1385	6	1624	7	1480	5	1324	4	1442	3	1539	1	1239	4	1355	4	1381	11	1830	6	431

TABLE VI.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF **BRIGHT SUNSHINE** IN EACH DISTRICT EXPRESSED AS **PERCENTAGES** OF THE **POSSIBLE DURATION** FOR THE YEAR 1904.

1904. — LIMITS OF WEEKS.	0. SCOTLAND, N.		Principal Wheat-producing Districts.												Principal Grazing Districts.												CHANNEL ISLANDS.		MEANS FOR DISTRICTS 1-10 COMBINED	
			1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR GRAZING DISTRICTS.					
	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.	For the Week.	From Jan. 3, 1904.
PERCENTAGES OF POSSIBLE DURATION OF BRIGHT SUNSHINE—1904.																														
1904.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
Jan. 3-9	10	10	10	10	7	7	10	10	5	5	7	7	8	8	10	10	11	11	13	13	8	8	18	18	11	11	18	18	9	9
10-16	6	9	19	15	16	12	20	15	20	13	21	14	20	14	14	12	12	11	20	16	13	10	27	22	16	14	20	19	18	14
17-23	4	7	9	13	24	17	25	19	19	15	19	16	20	16	9	11	14	12	25	19	4	8	6	16	12	13	21	20	16	15
24-30	10	8	15	14	16	16	18	19	11	14	14	15	15	16	17	12	20	14	12	17	17	11	15	16	15	14	18	19	15	15
Jan. 31-Feb. 6	9	8	5	12	6	14	17	18	10	13	24	17	13	15	9	11	14	14	20	18	17	12	23	17	16	14	28	21	15	15
Feb. 7-13	9	8	14	12	23	16	28	19	15	14	19	18	18	16	12	11	14	14	12	17	8	11	19	18	14	14	18	20	17	15
14-20	29	12	25	15	28	18	30	21	23	15	27	19	26	17	17	12	18	15	26	18	15	12	15	17	19	15	29	22	22	16
21-27	13	12	6	13	3	16	9	19	6	14	18	19	8	16	5	11	5	13	14	18	14	12	14	17	10	14	27	22	10	15
Feb. 28-Mar. 5	34	15	18	14	11	15	11	18	11	14	10	18	13	16	23	13	22	15	14	17	18	13	20	17	20	15	21	22	17	16
Mar. 6-12	22	16	32	16	27	16	36	20	28	15	38	20	32	18	34	15	30	16	40	20	42	17	36	20	35	17	47	25	33	18
13-19	20	17	21	17	23	17	42	22	26	17	34	22	29	19	11	15	14	16	25	20	26	18	20	20	18	18	36	26	24	18
20-26	38	19	35	19	21	18	17	22	15	16	25	22	23	19	35	17	34	18	35	22	29	19	33	21	34	19	47	29	28	19
Mar. 27-April 2	21	19	29	20	36	19	36	23	34	18	31	23	33	21	26	18	30	19	28	23	19	19	24	21	26	20	35	29	29	20
April 3-9	25	20	48	23	48	22	42	25	47	21	38	24	45	23	39	20	37	21	36	24	32	20	33	22	36	21	33	30	40	22
10-16	31	21	35	24	37	23	44	27	35	22	46	26	40	24	32	21	35	22	47	26	40	22	32	23	38	23	56	32	39	24
17-23	35	22	32	24	48	26	51	29	39	23	47	28	43	26	46	23	49	24	51	28	41	23	47	25	46	25	51	33	45	25
24-30	22	22	31	25	32	26	32	29	28	24	29	28	30	26	26	23	27	24	25	28	17	23	24	25	24	25	39	34	26	26
May 1-7	28	22	30	25	39	27	38	30	38	25	33	28	35	27	33	24	35	25	25	27	30	23	31	26	30	25	39	34	33	26
8-14	23	23	13	24	21	27	22	29	21	25	24	28	20	27	20	24	26	25	31	28	37	24	34	26	30	25	38	34	25	26
15-21	38	24	54	27	56	29	59	31	54	27	56	30	56	29	49	25	51	27	47	29	36	25	43	27	45	27	45	35	50	28
22-28	30	24	16	26	10	27	16	30	6	25	18	29	13	28	10	24	11	26	20	28	30	26	34	28	21	26	30	35	17	27
May 29-June 4	60	26	45	27	35	28	25	30	32	26	29	29	33	28	47	26	44	27	51	30	50	27	47	29	47	28	55	36	40	28
June 5-11	53	28	30	27	22	28	32	30	32	26	37	30	31	28	59	28	53	29	43	30	53	29	60	31	53	29	26	35	42	29
12-18	21	28	38	28	36	28	43	31	35	27	40	30	38	29	26	28	34	29	30	30	23	28	28	31	28	29	48	36	33	29
19-25	16	27	24	28	26	28	40	31	29	27	47	31	33	29	19	27	23	29	43	31	16	28	22	30	25	29	62	37	29	29
June 26-July 2	39	28	44	29	57	29	64	33	61	28	70	33	59	30	60	29	65	30	69	33	38	28	43	31	55	30	79	39	56	30
July 3-9	13	27	23	28	45	30	49	34	47	29	47	34	42	31	22	29	43	31	42	33	22	28	42	31	34	30	54	40	38	31
10-16	27	27	36	29	55	31	77	36	62	31	72	35	61	32	47	29	57	32	54	34	43	28	38	32	47	31	66	41	51	32
17-23	40	27	29	29	45	32	66	37	44	31	68	37	50	33	44	30	42	33	52	35	34	29	34	32	41	32	63	42	46	32
24-30	35	28	13	28	11	31	31	37	13	31	31	36	19	32	17	30	20	32	21	34	25	29	29	32	22	31	35	42	21	32
July 31-Aug. 6	24	28	31	28	55	32	63	38	59	32	62	37	54	33	35	30	50	33	59	35	23	28	30	32	39	32	61	42	46	32
Aug. 7-13	25	28	32	28	45	32	59	38	51	32	62	38	50	34	43	30	50	33	61	36	30	28	45	32	46	32	53	43	48	33
14-20	32	28	35	29	38	33	38	37	37	32	45	38	39	34	41	31	41	34	53	37	37	29	44	32	44	32	66	44	42	33
21-27	28	28	31	29	30	32	45	38	31	32	47	39	37	34	22	30	23	33	32	37	27	29	32	32	28	32	39	43	32	33
Aug. 28-Sept. 3	29	28	32	29	43	33	43	39	46	33	37	39	40	34	34	30	41	34	44	37	34	29	32	32	37	32	41	43	39	33
Sept. 4-10	28	28	31	29	45	33	46	39	46	33	45	39	42	34	46	31	48	34	41	37	30	29	32	32	39	33	44	43	40	34
11-17	31	28	28	29	46	33	54	39	41	33	48	39	44	35	40	31	40	34	42	37	30	29	22	32	35	33	57	44	40	34
18-24	55	28	44	29	49	34	59	40	51	34	63	40	53	35	54	32	54	35	63	38	66	30	61	33	60	33	70	44	56	34
Sept. 25-Oct. 1	28	28	35	29	41	34	46	40	33	34	42	40	40	35	36	32	38	35	41	38	36	30	32	33	37	33	53	44	38	34
Oct. 2-8	31	29	42	30	41	34	33	40	27	34	24	39	33	35	40	32	33	35	26	38	34	30	37	33	35	33	29	44	35	34
9-15	24	28	40	30	43	34	43	40	36	34	40	39	40	35	35	32	45	35	30	37	27	30	21	33	32	33	44	44	36	33
16-22	21	28	33	30	23	34	26	40	21	33	14	39	24	35	19	32	19	35	12	37	14	30	12	32	15	33	20	44	20	34
23-29	16	28	25	30	36	34	45	40	32	33	43	39	35	35	15	31	37	35	45	37	25	30	38	32	31	33	49	44	32	34
Oct. 30-Nov. 5	11	28	20	30	14	34	11	39	4	33	12	39	12	35	17	31	11	34	9	37	14	29	11	32	13	33	20	43	12	34
Nov. 6-12	27	28	35	30	26	34	30	39	20	33	29	38	28	35	22	31	17	34	20	36	14	29	13	32	18	32	19	43	23	34
13-19	13	28	35	30	33	34	34	39	28	33	29	38	31	35	11	31	31	34	30	36	5	29	10	31	17	32	34	43	21	33
20-26	18	28	33	30	30	34	28	39	27	33	37	38	32	35	36	31	25	34	33	36	26	29	35	31	30	32	40	43	32	33
Nov. 27-Dec. 3	12	27	21	30	17	33	20	39	9	32	21	38	17	34	15	31	9	33	16	36	22	29	22	31	17	32	28	43	17	33
Dec. 4-10	13	27	21	30	23	33	12	38	17	32	12	38	17	34	24	31	21	33	24	36	38	29	40	31	29	32	28	42	23	33
11-17	9	27	15	29	28	33	23	38	18	32	11	37	20	34	17	30	14	33	15	35	18	29	14	31	16	32	15	42	18	33
18-24	7	27	19	29	21	33	31	38	11	32	29	37	22	34	12	30	25	33	19	35	11	28	17	31	18	32	31	42	20	33
Dec. 25-31	8	27	12	29	14	33	16	38	13	31	12	37	14	34	11	30	8	33	6	35	3	28	8	31	8	31	19	42	12	32